Prepared for

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CELL 4A CONSTRUCTION QUALITY ASSURANCE REPORT

WHITE MESA MILL
BLANDING, UTAH

Prepared by

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engineers | scientists | innovators

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July 2008

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1. INTRODUCTION

1.1 Terms of Reference

This report presents documentation of the Construction Quality Assurance (CQA) monitoring activities conducted by Geosyntec Consultants (Geosyntec) for the construction of the liner systems associated with Cell 4A at the White Mesa Mill Facility (hereafter referred to as the Project). The San Diego office of Geosyntec provided CQA services on behalf of Denison Mines (USA) Corp. (DMC). The CQA activities for the Project included monitoring construction activities and installation of: (i) earthworks; (ii) geosynthetics; and (iii) concrete.

This report contains documentation that the construction and CQA activities associated with the Project were performed in general accordance with the Project Documents, as defined by the Technical Specifications, Construction Drawings, CQA Plan, and Design Engineer-approved design modifications.

This report was prepared for DMC by Ms. Meghan Lithgow, E.I.T. of Geosyntec. The work described in this report was performed under the responsible charge of Mr. Gregory Corcoran, P.E., of Geosyntec. Mr. Corcoran reviewed this report in accordance with Geosyntec's peer review policy.

1.2 Report Organization

This report is organized as follows:

- Section 2 presents a brief description of the Project;
- Section 3 presents a description of the Project Documents, Geosyntec's scope of services, and project personnel;
- Section 4 describes the CQA activities related to earthworks;
- Section 5 describes the CQA activities related to geosynthetics;
- Section 6 describes the CQA activities related to drainage aggregates and sand;

- Section 7 describes the CQA activities related to the pipe and fittings and strip drainage composite;

- Section 8 describes the CQA activities related to concrete;

- Section 9 describes the CQA activities related to surveying;

- Section 10 summarizes the CQA work and presents Geosyntec's statement that the work was completed in general accordance with the Project Documents; and

- Section 11 presents the Engineer-of-Record stamp and signature.

Supporting information and data are presented in appendices at the end of this report.

2. PROJECT DESCRIPTION

The White Mesa Mill Facility is a uranium and vanadium ore processing facility located 6 miles south of the City of Blanding, Utah (Figure 1). The White Mesa Mill Facility contains mill process by-product disposal cells that initially provide evaporation of process liquids and eventually provide disposal capacity for tailings. The Project work area encompassed approximately forty-two (42) acres of land at the site, which required construction of the liner systems associated with Cell 4A. The Project construction included the following:

- initial topographic survey;
- soil and rock excavation and subgrade preparation;
- anchor trench and leak detection (LDS) system trench excavation;
- installation of needle-punched geosynthetic clay liner (GCL) consisting of woven and nonwoven geotextiles;
- installation of 60-mil HDPE secondary geomembrane;
- installation of LDS 4-inch and 18-inch PVC pipe and fittings;
- installation of 16oz./SY nonwoven cushion geotextile and aggregate within LDS pipe trench and sump;
- installation of 300 mil geonet;
- installation of 60-mil HDPE primary geomembrane;
- installation of 16oz./SY nonwoven geotextile cushion;
- installation of slimes drain 4-inch and 18-inch PVC pipe and fittings;
- installation of aggregate around slimes drain and within sump; and
- installation of strip composite drainage layer and overlying sand bags.

Earthwork construction for the Project began on 18 July 2007, while geosynthetic liner installation for the project began on 9 October 2007. Construction was completed on 29 June 2008. A photo log of the various stages of construction is presented in Appendix A.

Design and CQA services for the Project were performed by Geosyntec's San Diego, California office. Comanco Environmental Corporation (Comanco) of Reno, Nevada was the Contractor. Comanco's subcontractors included the following:

Tri-Hurst Construction of Blanding, Utah, who installed the emergency spillway.

Jones and DeMille Engineering of Richfield, Utah, who reviewed surveying data from Comanco's surveyors for the Project and prepared and certified record drawings of the project.

3. CONSTRUCTION QUALITY ASSURANCE PROGRAM

3.1 Introduction

This section presents a description of the CQA program implemented for the construction of the Project. The project documents which provided the guidelines for the CQA program and key project personnel are identified in the following Sections.

3.2 Project Documents

CQA monitoring conducted during the Project was carried out in general accordance with the requirements of the following Project Documents:

1. *Technical Specifications*
   Revised Technical Specifications for the Construction of Cell 4A Lining System,
   White Mesa Mill, Blanding, Utah
   Prepared For: Denison Mines (USA) Corp.

   Prepared By: Geosyntec Consultants
   Dated: September 2007

2. *Revised Construction Quality Assurance Plan for the Construction of Cell 4A Lining System*
   White Mesa Mill, Blanding, Utah
   Prepared For: Denison Mines (USA) Corp.

   Prepared By: Geosyntec Consultants
   Dated: September 2007

3. *Construction Drawings*
   Cell 4A Lining System
   White Mesa Mill, Blanding, Utah
   Prepared For: Denison Mines (USA) Corp.

   Prepared By: Geosyntec Consultants
   Dated: June 2007

In this Final CQA Report, the above documents are referred to as the Technical Specifications, the CQA Plan, and the Construction Drawings, respectively, or collectively as the Project Documents.

3.3 Design Changes

During construction, minor design changes were made to the Project Documents, as approved by the Design Engineer. Documents containing the details of these design changes are included in Appendix B-1 and are referenced in appropriate sections of this report. The following sections describe each of the design changes.

3.3.1 Sump Area

The geomembrane material specified for installation under the slimes drain and LDS riser pipes in the southwest corner of the cell was changed from a smooth HDPE geomembrane to a double-sided textured geomembrane. This design change was addressed in a design addendum issued to Comanco dated 21 February 2008. In addition to specifying the change in material, the design addendum provided a new construction drawing showing both riser pipes were to be installed in a trench excavated along the side slope instead of installed above grade on the sideslope as originally specified.

3.4 Scope of Services

3.4.1 CQA Activities

CQA activities involved the monitoring of the construction of the Project, including performing and reviewing CQA tests, reviewing and generating appropriate correspondence, reviewing Contractor submittals, and summarizing field activities. Documentation of these CQA and construction activities is included herein.

Project correspondence and documentation related to design changes are presented in Appendix B-1 and contractor submittals are presented in Appendix B-2.

3.4.2 Construction Record Drawings

The Construction Record Drawings for the Project are included in Appendix M. The Construction Record Drawings, prepared by the Contractor and reviewed by Geosyntec, indicate subgrade elevations and limits of geosynthetic liner system components.

3.4.3 Final Report

The tasks performed by Geosyntec during CQA monitoring are summarized in this Final Report. Documentation of construction and CQA monitoring including correspondence, field CQA test results, laboratory results of conformance testing, and Construction Record Drawings are also included.

3.5 Project Personnel

The following personnel participated in Project construction activities (see Figure 3 for the project organizational chart):

Denison Mines (USA) Corporation (Project Owner)

- Harold R. Roberts
  Executive Vice President - US Operations
- Richard E. Bartlett
  Mill Manager

Geosyntec Consultants (Geosyntec)

(Construction Manager / Construction Quality Assurance Consultant)

- Gregory T. Corcoran, P.E.
  Engineer-of-Record
- Brent Barbacane
  Assistant CQA Manager
- Jeffrey Stewart
  Site CQA Manager
- Collin Sukow
  Site CQA Manager

Comanco

(Contractor, Geosynthetic Installer, Surveyor)

- Jeryl Pryor
  Regional Manager/Project Manager
- Brian Libby
  Site Project Manager

Tri Hurst Construction, Inc.

(Concrete Installer)

TRI/Environmental, Inc. (TRI)

(Off-site Geosynthetics Testing Laboratory)

- Sam R. Allen
  Laboratory Director

Excel Geotechnical Testing (EGT)

(Off-site Soils Testing Laboratory)

- Nader Rad
  Laboratory Manager

Moab Testing

(Off-site Concrete Testing Laboratories)

- Joe Downard
  Laboratory Manager

4. CONSTRUCTION QUALITY ASSURANCE - EARTHWORKS

4.1 General

CQA monitoring of the earthwork components of the Project included the observation of construction methods, testing of earthwork materials in place, and reviewing field test results for general conformance with the Project Documents. Geosyntec CQA personnel monitored the vegetation removal, subgrade preparation, fine-grading, and anchor trench excavation and backfill. The following sections present an overview of the materials used for the earthwork components of the Project and summarize the methods, frequency, and results of Geosyntec's CQA testing.

4.2 CQA Monitoring and Testing

4.2.1 Vegetation Removal

Rock, soil, and vegetation were excavated from the Cell 4A area and placed within Cell 3.

4.3 CQA Monitoring and Testing – Grading

4.3.1 Overview

During subgrade preparation activities, the Contractor encountered rock during earthwork activities and a rock profile was prepared based on test pits and survey data performed on the bottom of the cell. Based on the rock profile, the Contractor excavated rock from the bottom of the cell. Geosyntec personnel observed the over-excavation of the rock beyond the proposed bottom of the cell and placement and compaction of approximately 8,660 cubic yards of backfill.

4.3.2 Compaction and Moisture/Density Testing

Geosyntec personnel performed 1 modified Proctor compaction test (ASTM D 1557) of subgrade fill material, satisfying the required frequency of one test per material type as outlined in the Project Documents. Laboratory test results are presented in Appendix C-1.

Geosyntec personnel performed 23 passing in-place moisture/density tests on subgrade fill using the nuclear gauge moisture/density method (ASTM D 2922/3017). This corresponds to a frequency of one passing test per lift per 377 ft^3. This frequency meets

the minimum requirement of one test per lift per 500 yd^3 as outlined in the Project Documents.

Results of nuclear gauge moisture/density tests indicate that the anchor trench backfill satisfies the requirements set forth in the Project Documents. Results and location of in-place nuclear gauge moisture/density tests are summarized on test logs presented in Appendix C-2.

4.3.3 Particle Size Test Results

Geosyntec personnel performed one (1) particle size analysis (ASTM D 422) on the subgrade fill material. This frequency meets the minimum requirement of one passing test per material type. The particle size distribution of the test demonstrates that the soil used in construction of the subgrade fill is a consistent material with respect to particle size. The test results indicate that the maximum particle size is 0.75 inch or less. Results of the particle size analysis are presented in Appendix C-1.

4.4 CQA Monitoring and Testing – Anchor Trench Construction

4.4.1 Overview

The Contractor excavated approximately 5,480 linear feet (LF) of anchor trench for the Project. Anchor trench backfill originated from material excavated from the anchor trench. CQA monitoring of anchor trench backfill included in-place moisture/density testing.

4.4.2 Compaction and Moisture/Density Testing

Geosyntec personnel conducted 1 modified Proctor compaction test (ASTM D 1557) of material representative of the anchor trench backfill material, satisfying the required frequency of one test per material type as outlined in the Project Documents. Laboratory test results are presented in Appendix D-1.

Geosyntec personnel performed 8 passing in-place moisture/density tests on anchor trench backfill using the nuclear gauge moisture/density method (ASTM D 2922/3017).

Results of nuclear gauge moisture/density tests indicate that the anchor trench backfill satisfies the requirements set forth in the Project Documents. Results and location of in-place nuclear gauge moisture/density tests are summarized on test logs presented in Appendix D-1.

5. CONSTRUCTION QUALITY ASSURANCE - GEOSYNTHETICS

5.1 General Overview

Geosyntec monitored installation of the geosynthetic components of the Project's engineered liner system. This section contains a description of CQA tasks performed in support of geosynthetics installation and the geosynthetic components used in construction of the Project's liner system. Subsequent sections contain descriptions of geosynthetic conformance testing and documentation and CQA monitoring and testing performed by Geosyntec during liner construction. Documentation of the geosynthetic liner materials and installation is presented in Appendices F through K.

The following geosynthetic materials were used during construction of the Project's composite liner system:

Geosynthetic Clay Liner (GCL):	• CETCO Lining Technologies LO-BENTOMAT ST
Geomembrane:	• GSE 60-mil white smooth HDPE geomembrane and GSE 60-mil white double-sided textured HDPE geomembrane
Non-Woven Geotextile:	• Skaps Industries GE116 16 oz. Nonwoven Geotextile
Woven Geotextile:	• Propex GEOTEX® 200ST Woven Geotextile
Geonet:	• Skaps Industries Transnet 330 Geonet
Strip Drainage Composite:	• GDE Control Products, Drainage Core

5.2 Geosynthetic Clay Liner (GCL) CQA

5.2.1 General

Comanco installed a total of 1,900,000 ft^2 of GCL on this project. This section contains a description of CQA tasks performed in support of the GCL material and installation methods used in construction of the Project's double liner system. GCL manufactured by CETCO were used as the GCL component of the liner system. Documentation of the GCL material and installation is presented in Appendix H.

Installation of the GCL components of the liner system began on 9 October 2007 and was completed on 13 June 2008. The CQA tasks performed during construction of the GCL components of the Project's composite liner system included the following:

- documenting the GCL storage methods at the site and comparing the delivered inventory against the inventory list prepared in the factory;
- reviewing the manufacturer's certification and manufacturer quality control (MQC) test results for general compliance with the Project Documents;
- documenting the acceptance and/or rejection of GCL materials;
- monitoring that the subgrade surface is moist to within a minimum of 1 inch from the subgrade surface;
- monitoring and documenting the deployment and installation of the GCL materials;
- monitoring and documenting the hydration of the GCL materials prior to secondary geomembrane deployment; and
- monitoring and documenting damaged materials and the repairs performed on the GCL material.

Documentation in support of the GCL materials and installation is presented in Appendix H.

5.2.2 Conformance Testing and Documentation

5.2.2.1 Manufacturer Quality Control Documentation

The Contractor submitted certification and MQC documentation provided by CETCO for the rolls of GCL delivered to the site. Geosyntec compared the information contained in the manufacturer's documentation against the requirements listed in the Project Documents. The documentation included information regarding the properties of the geotextile and bentonite clay components used to manufacture the GCL. Based on this comparison, the GCL material delivered to the site met the requirements of the Project Documents. The submittal package for the GCL materials, which contains certification and MQC documentation, is presented in Appendix B.

Geosyntec performed a material inventory of the on-site GCL and compared the inventoried material to the list of MQC data submitted by the contractor. MQC data was received for the material inventoried and used for the Project. GCL Material Inventory Logs are presented in Appendix H-1.

5.2.2.2 Sampling and Conformance Testing

TRI sampled the GCL material for conformance testing at the CETCO manufacturing plant and shipped twenty-three (23) samples to their laboratory in Austin, Texas for testing. Twenty-three (23) GCL samples were tested for mass per unit area and seven (7) of the twenty-three GCL samples were tested for index flux with an approximate testing frequency of one test per 82,608 ft^2 and 271,428 ft^2, respectively for each test, of GCL installed. This frequency exceeds the testing frequency of one test per 100,000 ft^2 and 400,000 ft^2 for mass per unit area and index flux, respectively, as required in the Project Documents. The GCL samples were tested by using the following standards:

- Bentonite Mass per Unit Area (ASTM D 5993); and
- Index Flux (ASTM D 5887).

Results indicate that the GCL meets the material requirements of the Project Documents. The CQA conformance testing results are included in Appendix H-2.

Geosyntec CQA personnel were also responsible for monitoring and documenting GCL hydration activities. Geosyntec documented the amount of water used for GCL

hydration at a frequency of one water can per acre of GCL deployed. In addition, Geosyntec performed in-field GCL moisture content testing to monitor the hydration means and methods and to provide guidance to the contractor for deployment of the secondary geomembrane. After hydration and secondary geomembrane deployment and seaming, forty-two (42) 6-inch square GCL samples were collected from secondary geomembrane destructive sample locations and tested at a frequency of approximately 1 per 3.8 secondary geomembrane destructive samples for moisture content in accordance with ASTM D 2216. This frequency exceeds the testing frequency of one test per four (4) secondary geomembrane destructive samples, based on a total number of secondary geomembrane destructive samples of 159.

Results indicate that the GCL meets the hydration requirements of the Project Documents. The CQA conformance testing results are included in Appendix H-3.

5.2.3 Construction Quality Assurance Monitoring

5.2.3.1 On-Site Storage

On-site storage methods for the GCL material were monitored by Geosyntec personnel. Geosyntec personnel observed that the GCL material was properly stored on pallets and covered with tarps to prevent damage or premature hydration of the bentonite. Geosyntec did not observe damage to the material during storage at the site.

5.2.3.2 Placement Methods

Geosyntec observed the deployment of the GCL.

Geosyntec also monitored for the following potential problems:

- evidence of inadequate hydration of the subgrade and bentonite;
- manufacturing defects;
- presence of needles that are used during the manufacturing process;
- evidence of damage which may have occurred during shipping, storage, or handling; and
- damage caused during installation activities, as a consequence of placement, connection operations, or weather.

Repairs were made to the GCL in accordance with the Project Documents. In addition, Geosyntec monitored that entrapment of stones or other objects that could potentially damage the geosynthetic clay liner or the overlying geomembrane did not occur.

5.2.3.3 Seaming Methods

The geosynthetic clay liner was placed in individual panels. Adjacent panels were overlapped at least six (6) inches along the sides and a minimum of 1 ft along the panel ends in accordance with the requirements of the Project Documents. In areas where GCL was placed on slopes steeper than 10:1, adjacent panels were overlapped at least twelve (12) inches along the sides and a minimum of 2 ft along the panel ends in accordance with the general requirements of the Project Documents. In addition, granular bentonite was placed along the seams, in accordance with the Manufacturer's recommendation.

5.2.3.4 Geosynthetic Clay Liner Repairs

Geosyntec observed that holes or tears in the GCL were repaired in accordance with the requirements outlined in the Project Documents. Repairs were made by placing an additional piece of GCL over the defective area to a distance of at least 2 ft in all directions from the defect on slopes steeper than 10 percent. On slopes 10 percent or flatter, repairs were made by placing an additional piece of GCL liner over the defective area to a distance of at least 1 foot in all directions from the defect. Overlaps were seamed with granular bentonite.

5.3 Geomembrane CQA

5.3.1 General

Geosyntec monitored installation of approximately 3,800,000 ft^2 of geomembrane for the liner system (primary and secondary). This section contains a description of CQA tasks performed in support of the geomembrane material and installation methods used in construction of the Project's double liner system. Smooth 60-mil HDPE geomembrane manufactured by GSE was used as the geomembrane component of the liner system. Textured 60-mil HDPE geomembrane manufactured by GSE was used in the southwest corner of the Cell on the cell floor under the sump area and on the side slope underlying the LDS and slimes drain system riser pipes. The use of textured geomembrane is a design change documented in an addendum issued by Geosyntec on

21 February 2008 to the Contractor. Documentation of the geomembrane material and installation is presented in Appendix F.

Construction of the geomembrane components of the liner system began on 9 October 2007 and was completed on 29 June 2008. The CQA tasks performed during construction of the geomembrane components of the Project's composite liner system included the following:

- documenting the geomembrane storage methods at the site and comparing the delivered inventory against the inventory list prepared in the factory;
- reviewing the MQC documentation and test results for compliance with the Project Documents;
- reviewing the results of conformance testing for compliance with the Project Documents;
- documenting the acceptance and/or rejection of geomembrane materials;
- monitoring trial geomembrane seaming and the on-site destructive testing of trial seams by the contractor;
- monitoring and documenting production seaming of the adjacent geomembrane panels;
- monitoring and documenting the repairs for geomembrane;
- monitoring and documenting the non-destructive field testing of production geomembrane seams and other repairs;
- selecting destructive geomembrane production seam sample locations and documenting their location;
- shipping of geomembrane production seam samples for destructive testing;
- reviewing the destructive seam test results for compliance with the specifications; and
- monitoring and reviewing documentation of the repair of geomembrane production seams that failed either non-destructive or destructive CQA testing criteria.

5.3.2 Conformance Testing and Documentation

5.3.2.1 Manufacturer Quality Control Documentation

The Contractor submitted certification and MQC documentation for the rolls of 60-mil HDPE geomembrane. The documentation for the rolls of geomembrane material includes:

- polyethylene resin certificates;
- geomembrane inventory list;
- geomembrane certificates and MQC test results;
- 20 year warranty against manufacturing defects;
- 1-year warranty against workmanship defects;
- manufacturing quality control manual; and
- installer resumes.

The documentation indicates that the geomembrane and resin properties met the requirements specified in the Project Documents. This documentation reviewed by Geosyntec is presented in Appendix B. The number prefix for geomembrane roll test data was changed from 24 to 25 midway through the submittal process. The following submittals in Appendix B contain geomembrane roll test data: 24-2, 24-3, 24-4, 24-5, 25-6, 26-7, 25-8, 25-9, 25-10, 25-11, 35, and 36.

Geosyntec performed a material inventory of the on-site geomembrane and compared this to the list of MQC data submitted by the contractor. The geomembrane Material Inventory Log is presented in Appendix F-1.

5.3.2.2 Sampling and Conformance Testing

TRI collected twenty-four (24) samples of the geomembrane material for conformance testing at the geomembrane manufacturing plant and shipped the samples to their laboratory in Austin, Texas for testing. The 60-mil geomembrane was sampled and tested with an approximate testing frequency of one test per 158,333 ft^2 of geomembrane material delivered to the site. These frequencies exceed the testing

frequency of one test per 200,000 ft^2. The geomembrane samples were tested for the following:

- Thickness (ASTM D 5199);
- Specific Gravity (ASTM D 792, Method A);
- Tensile Properties (ASTM D 638);
- Carbon Black Content (ASTM D 1603);
- Interface Shear Strength (ASTM 5321) (one sample only); and
- Carbon Black Dispersion (ASTM D 5596).

Geosyntec reviewed the results of the conformance testing and found the results to meet or exceed the requirements of the Project Documents. The conformance test results are included in Appendix F-2.

5.3.3 Construction Quality Assurance Monitoring

5.3.3.1 Delivery and On-Site Storage

The geomembrane rolls were stored in such a way as to reduce exposure to sources of damage. Geosyntec did not observe damage to the material during storage at the site.

5.3.3.2 Placement Methods

The installer transported the rolls to the Project area by using a fork lift and attached spreader bar in a manner intended to reduce damage to the geomembrane. Panels were manually placed into position and temporarily secured with sandbags. Panel Placement Logs for the geomembrane installation were prepared by Geosyntec and are presented in Appendix F-7. The limits of HDPE geomembrane placed during the Project's composite liner system construction are shown on Construction Record Drawings presented in Appendix K.

During deployment, geomembrane panels or rolls were visually observed for the following potential problems:

- manufacturing defects;
- evidence of damage that may have occurred during shipping, storage, and handling; and

- damage caused by the installation activities, (e.g., as a consequence of panel placement, seaming operations, or weather).

Damaged materials were either discarded or repaired, as described herein. Geosyntec observed repair locations. Whenever possible, the cause(s) of the damage was ascertained and addressed to minimize the potential for further damage.

5.3.3.3 Trial Seams

Geomembrane trial seams for each welding technician and for each piece of seaming equipment (i.e., fusion or extrusion) were prepared at the beginning of the morning and afternoon seaming shifts. Additional trial seams were performed if the welding material changed, if adjustments were made to the seaming equipment, or if there is a significant change in weather. Geosyntec observed that the trial seams were prepared in general accordance with the requirements of the Project Documents. Each trial seam was about 1 ft wide by 5 ft long for both fusion and extrusion welds, with the seam centered lengthwise. Following completion of the trial seams, the seams were destructively tested in the field by Comanco by using a calibrated field tensiometer (Appendix F-5). Geosyntec monitored and documented the geomembrane trial seams for general conformance to the Project Documents. The following procedure was followed for trial seam testing:

- four (4) 1-in. wide coupons were cut every 1 ft along the trial weld;
- two (2) coupons were tested in peel strength (both tracks were tested for the fusion welds) and two (2) coupons were tested for shear strength by using a digital tensiometer;
- a passing test for each specimen was confirmed when the requirements in the Project Documents were met or exceeded; and
- if a specimen failed a test, two (2) additional new trial seams were fabricated and the test procedure was repeated.

The technician proceeded with the production seaming operations once a technician produced a trial seam or seams passing the above-described tests and his trial seams met or exceeded the requirements of the Project Documents. A total of 486 trial seams were tested by Comanco and documented by Geosyntec. These trial seams met the requirements of the Project Documents. Geosyntec CQA personnel recorded the average trial seam testing results on Trial Seam Logs. Copies of the completed logs are presented in Appendix F-6.

5.3.3.4 Production Seaming

Geomembrane production seaming operations were monitored and documented by Geosyntec CQA personnel. Geosyntec recorded the date, seam and panel numbers, time, technician, and machine number for each seam on the Seam Logs. These Seam Logs are presented in Appendix F-8. Approximately 135,566 LF of production fusion seams were welded during installation of the Project's composite liner system. This value includes secondary, primary, and repair fusion weld lengths. Geomembrane seams were visually examined for workmanship and continuity. Areas of the seams suspected of being substandard were marked by Geosyntec CQA personnel for destructive testing and, if necessary, for repair. During seaming, geomembrane panels or rolls were observed for the following:

- joints between geomembrane panels were overlapped by a minimum of four (4) inches;
- weld area was free of dirt, dust, moisture, or other foreign material;
- extrusion welding rod resin used for extrusion welding were the same resin type used to manufacture geomembrane material;
- edges of the geomembrane were protected during placement to prevent movement by wind or other damage prior to seaming;
- seams were wiped with oil-free rags, where appropriate, to remove moisture or dirt and dust;
- weld was made immediately after preparation and cleaning is complete;
- excessive wrinkles were cut, overlapped, and extrusion welded;
- geomembrane areas showing excessive scuffing, puncture, or distress were replaced; and
- damage caused by the installation activities (e.g., as a consequence of panel placement, seaming operations, or weather) was repaired.

Damaged geomembrane welds that were identified by Geosyntec CQA personnel were brought to the attention of the installer for repair. Geomembrane repairs are described in Section 5.3.6. During production welding of the primary geomembrane, a burr was identified on one of the fusion welders, which created a scratch on the bottom of the

primary geomembrane. All of the primary geomembrane seams that were welded with this specific welder were removed and a repair was made by fusion welding a new strip of geomembrane in its place. Consequently, every one foot of removed fusion weld was replaced with two feet of new weld (one foot on each side of the repair). Repairs were destructively tested as described herein.

5.3.4 Nondestructive HDPE Geomembrane Seam Testing

5.3.4.1 General

Geomembrane seams were nondestructively tested by Comanco for continuity by using air-pressure or vacuum test procedures. Double-track fusion seams were tested by using the air-pressure test method (ASTM D 5820). The extrusion welds were tested with the vacuum test method (ASTM D 5641). Defects identified by nondestructive testing were repaired, as described in Section 5.3.6.

5.3.4.2 Test Methods

Double-track fusion seams were nondestructively tested by using the air-pressure test. The procedures followed for the air-pressure test were:

- visually observe the integrity of the section of seam being tested;
- seal both ends of the air channel by using heat and pressure;
- insert the needle of a pressure gauge into the air channel at one end of the seam;
- pressurize the air channel between 25-30 psi gauge pressure with an air pump;
- maintain the gauge pressure for at least five minutes;
- if a loss of pressure exceeding 3 psi occurs or if the pressure does not stabilize during the test, identify the faulty area and repair in accordance with the procedure described in Section 6.3.6 of this report;
- record the location of the test; and
- upon completion of the nondestructive test, confirm the continuity of the air channel by releasing air from the end of the seam opposite the end in which the needle was inserted.

The vacuum test was used to nondestructively test extrusion seams. The procedures followed were:

- connect the hose and vacuum box assembly to the vacuum pump;
- wet a strip of seam approximately 1 ft wide by 3 ft long with soapy solution;
- place the vacuum box over the wetted area;
- open the bleed valve on the vacuum box test apparatus;
- force the box onto the sheet until a vacuum is established, as evidenced by a negative box pressure of approximately 5 psi gauge;
- hold the vacuum box in place for a minimum of 10 seconds while examining the seam through the viewing window for the occurrence of air bubbles; and
- record the location of leaks, if any, and repair the area.

5.3.4.3 Summary of Test Results

Seams passing the nondestructive testing were temporarily accepted. Final evaluation of the seams is measured by the destructive test results described in the following section. Portions of the seam that did not pass nondestructive testing were repaired as outlined in Section 5.3.6.

5.3.5 Destructive HDPE Geomembrane Seam Testing

5.3.5.1 General

Geomembrane seam samples were destructively tested by TRI in accordance with the Project Documents. Samples of the production geomembrane seams for the Project were obtained by Geosyntec CQA personnel according to the procedures identified in the Project Documents. Geosyntec obtained 159 destructive secondary geomembrane samples from fusion welds, 214 destructive primary geomembrane samples from fusion welds, and 112 destructive samples collected from primary geomembrane fusion welded repairs. This equates to a frequency of one destruct per 280 LF of total production seaming, which satisfies the requirements of the Project Documents of one

destructive sample per 500 LF of production seam. The locations of the destructive seam samples are described on the Destructive Test Logs presented in Appendix H-10. Sampling procedures, test methods, and test results of seam samples are discussed further in the following sections.

5.3.5.2 Seam Sampling and Destructive Testing

Comanco removed destructive seam samples at locations designated by Geosyntec CQA personnel for destructive testing. Each sample's location was chosen to either satisfy the frequency requirement or if the seam was suspected of excess crystallinity, weld contamination, or other potential cause of poor welds.

Seam samples were tested in the field by Comanco prior to laboratory testing. Field testing consisted of testing five (5) coupons for peel adhesion and five (5) coupons for bonded seam strength (shear) from each sample. Testing of the seams was performed under the observation of Geosyntec CQA personnel in general accordance with the requirements of the Project Documents. When test results and observations of seam testing in the field indicated that the seam satisfied the Project Documents, a portion of the sample was forwarded to TRI for laboratory destructive seam testing. Laboratory testing consisted of testing five (5) coupons for peel adhesion and five (5) coupons for bonded seam strength (shear).

5.3.5.3 Summary of Destructive Test Results

Of the 159 original secondary geomembrane seam samples, one (1) failed laboratory testing. Of the 214 original primary geomembrane seam samples, sixteen (16) failed laboratory testing. Of the original 112 fusion welded repairs, two (2) failed laboratory testing. Subsequently, the corresponding seam was re-sampled at a minimum of 10 ft before and 10 ft after the failing destructive sample. The bounding destructive samples were tested and the results met or exceeded the requirements of the Project Documents. The failing seam length and seam sample locations were subsequently repaired, as described in Section 5.3.6. Passing field and laboratory destructive samples met or exceeded the requirements of the Project Documents exhibiting strengths greater than the following:

60-mil Geomembrane Seam Strength	
• Peel – Fusion (lbs/in.)	91
• Peel – Extrusion (lbs/in.)	78
• Shear (lbs/in.)	120

Destructive test results are presented in Appendix F-10.

5.3.6 Geomembrane Repairs

Defects identified by visual inspection, nondestructive testing, or destructive testing were repaired by the installer by using hand-held extrusion welders. Tears and holes in the geomembrane were patched (i.e., capped) by using extrusion welders. Repairs were performed in accordance with the requirements of the Project Documents. Geosyntec personnel monitored the geomembrane repair work and recorded the locations and subsequent nondestructive testing on the Repair Summary Logs located in Appendix F-9.

5.4 Non-Woven Geotextile (NWG) CQA

5.4.1 General

A 16-oz. cushion geotextile (non-woven geotextile (NWG)) was required to separate the drainage aggregate and geomembrane as shown on the Drawings. The contractor supplied a 16-oz. cushion geotextile for this project and installed approximately 63,000 ft^2 of material. Documentation in support of the NWG materials and installation is presented in Appendix I. The tasks performed to construct the NWG components of the Project's composite liner system included the following:

- documenting the NWG storage methods at the site;
- reviewing the manufacturer's certification for general compliance with the Project Documents;
- documenting the acceptance and/or rejection of NWG materials;
- monitoring the deployment and installation of the NWG materials; and

- monitoring and documenting damaged materials and the repairing methods performed on the NWG materials.

5.4.2 Conformance Testing and Documentation

5.4.2.1 Manufacturer Quality Control Documentation

The Contractor submitted certification and MQC documentation provided by SKAPS Industries (SI) for the rolls of NWG cushion delivered to the site. Geosyntec compared the information contained in the manufacturer's documentation against the requirements listed in the Project Documents. Based on this comparison, the NWG cushion material delivered to the site met the requirements of the Project Documents. The submittal package for the NWG cushion materials, which contains certification and MQC documentation, is presented in Appendix B.

MQC data was received for the material inventoried and used for the Project. NWG Material Inventory Logs are presented in Appendix I-1.

5.4.2.2 Sampling and Conformance Testing

TRI sampled the NWG cushion material at the manufacturing facility. Subsequently, two samples were sent to TRI for conformance testing. The 16-oz. cushion NWG was sampled and tested with an approximate testing frequency of one test per 31,500 ft^2 of material delivered to the site. This frequency exceeds the testing frequency of one test per 260,000 ft^2 as required in the Project Documents. The NWG sample was tested for the following:

- Grab Strength (ASTM D 4632);
- Mass per Unit Area (ASTM D5261);
- Permittivity (ASTM D 4491);
- A.O.S. (ASTM D 4751); and
- Puncture Strength (ASTM D 4833).

Results indicate that the NWG meets or exceeds the general requirements of the Project Documents. The CQA conformance testing results are included in Appendix G-1.

5.4.3 Construction Quality Assurance Monitoring

5.4.3.1 On-Site Storage

On-site storage methods for the NWG material were monitored by Geosyntec personnel. Conditions that could damage the material (i.e., exposure to precipitation, mud, dirt, dust, etc.) were noted and brought to the attention of the contractor. Geosyntec personnel observed that the NWG material was properly stored to prevent damage. Geosyntec did not observe damage to the material during storage at the site.

5.4.3.2 Placement Methods

Geosyntec monitored for the following potential problems:

- manufacturing defects;
- evidence of damage which may have occurred during shipping, storage, or handling;
- damage caused during installation activities, as a consequence of placement, connection operations, or weather; and
- measures were taken to avoid the entrapment of stones, dust, moisture, or other objects that could potentially damage the NWG or the adjacent geomembrane.

Damaged material that was identified was brought to the attention of the installer for removal or repair. Repairs performed on the NWG are described in Section 5.4.3.4.

5.4.3.3 Seaming Methods

The NWG was placed in individual panels. Adjacent panels were overlapped and continuously sewn.

5.4.3.4 NWG Repairs

Geosyntec observed that holes or tears in the NWG were repaired. Repairs were made by placing an additional piece of NWG over the defective area to a distance of at least 6 in. in all directions from the defect.

5.5 Geonet CQA

5.5.1 General

The contractor installed approximately 1,900,000 ft^2 of geonet overlying the secondary geomembrane as a component of the LDS. The tasks performed to construct the geonet components of the LDS included the following:

- documenting the geonet storage methods at the site and comparing the delivered inventory against the inventory list prepared in the factory;
- reviewing the manufacturer's certification for compliance with the Project Documents;
- documenting the acceptance and/or rejection of geonet materials;
- monitoring the deployment and installation of the geonet materials; and
- monitoring and documenting damaged materials and the repairing methods performed on the geonet material.

5.5.2 Manufacturer Quality Control Documentation

The Contractor submitted certification and MQC documentation provided by SI for the geonet delivered to the site. Geosyntec compared the information contained in the manufacturer's documentation against the requirements listed in the Project Documents. Based on this comparison, the geonet material delivered to the site met or exceeded the requirements of the Project Documents. The submittal package for the geonet materials is presented in Appendix B.

5.5.2.1 Sampling and Conformance Testing

TRI sampled the geonet material at the manufacturing facility and sent the samples to their laboratory in Austin, Texas for testing. Eleven (11) samples were sent to TRI for conformance testing for thickness (ASTM D 5199) and seven (7) of the eleven samples

were tested for hydraulic transmissivity (ASTM D 4716) with an approximate testing frequency of one test per 172,727 ft^2 and 271,429 ft^2, respectively for each test, of geonet installed. This frequency exceeds the testing frequency of one test per 200,000 ft^2 for thickness and one test per hydraulic transmissivity per 400,000 ft^2, as required in the Project Documents.

Results indicate that the geonet meets or exceeds the requirements of the Project Documents. The CQA conformance testing results are included in Appendix I-2.

5.5.3 Construction Quality Assurance Monitoring

5.5.3.1 On-Site Storage

On-site storage methods for the geonet material were monitored by Geosyntec personnel. Geosyntec personnel observed that the geonet material was properly stored to prevent damage. Geosyntec did not observe damage to the material during storage at the site.

5.5.3.2 Placement Methods

Geosyntec monitored for the following potential problems:

- manufacturing defects;
- evidence of damage which may have occurred during shipping, storage, or handling; and
- damage caused during installation activities, as a consequence of placement, connection operations, or weather.

Geonet was installed with the machine direction placed in the direction of the slope, in accordance with the Project Documents. Damaged material that was identified was brought to the attention of the installer for removal or repair. Repairs performed on the geonet are described in Section 5.5.3.4.

5.5.3.3 Seaming Methods

The geonet was placed in individual panels. Geosyntec monitored that the geonet adjacent rolls were overlapped by at least 4 in. and secured with nylon ties. Nylon ties

were installed at a minimum of 5-ft intervals on side to side seams and every 2 ft on butt-seams in general accordance with the Project Documents.

5.5.3.4 Geonet Repairs

Geosyntec observed that holes or tears in the geonet were repaired. Repairs were made by placing an additional piece of geonet over the defective area to a distance of at least 1 ft in all directions from the defect and secured every 6 in. with nylon ties.

5.6 Woven Geotextile CQA

5.6.1 General

A Propex woven geotextile was required to cover the drainage aggregate as shown on the Drawings. The contractor supplied a Propex woven geotextile for this project and installed approximately 29,400 ft^2 of material. The tasks performed to construct the woven geotextile components of the Project's composite liner system included the following:

- documenting the woven geotextile storage methods at the site;
- reviewing the manufacturer's certification for general compliance with the Project Documents;
- monitoring the deployment and installation of the woven geotextile materials; and
- monitoring and documenting damaged materials and the repairing methods performed on the woven geotextile materials.

5.6.2 Documentation

5.6.2.1 Manufacturer Documentation

The Contractor submitted certification documentation provided by Propex for the rolls of woven geotextile delivered to the site. Geosyntec compared the information contained in the manufacturer's documentation against the requirements listed in the Project Documents. Based on this comparison, the woven geotextile material delivered

to the site met the requirements of the Project Documents. The submittal package for the woven geotextile is presented in Appendix B.

5.6.3 Construction Quality Assurance Monitoring

5.6.3.1 On-Site Storage

On-site storage methods for the woven geotextile material were monitored by Geosyntec personnel. Conditions that could damage the material (i.e., exposure to precipitation, mud, dirt, dust, etc.) were noted and brought to the attention of the contractor. Geosyntec personnel observed that the woven geotextile material was properly stored to prevent damage. Geosyntec did not observe damage to the material during storage at the site.

5.6.3.2 Placement Methods

Geosyntec monitored for the following potential problems:

- manufacturing defects;
- evidence of damage which may have occurred during shipping, storage, or handling; and
- damage caused during installation activities, as a consequence of placement, connection operations, or weather.

Damaged material that was identified was brought to the attention of the installer for removal or repair. Repairs performed on the woven geotextile are described in Section 5.6.3.4.

5.6.3.3 Seaming Methods

The woven geotextile was placed in individual panels. Adjacent panels were continuously overlapped and continuously sewn.

5.6.3.4 Woven Geotextile Repairs

Geosyntec observed that holes or tears in the woven geotextile were repaired. Repairs were made by placing an additional piece of woven geotextile over the defective area and sewn in place.

6. CONSTRUCTION QUALITY ASSURANCE – DRAINAGE AGGREGATE AND SAND BAG SAND

6.1 Overview

Geosyntec personnel observed the placement of drainage aggregate into the LDS trenches, into the sump area and side slope riser pipe trenches located at the southeast corner of the cell, and around the slimes drain header pipe located on the cell floor. Utah Department of Transportation concrete sand was used to fill sand bags used to secure the woven geotextile overlying the slimes drain drainage aggregate and the strip drain composite component of the slimes drain system on the cell floor. The submittal package for the drainage aggregate and concrete sand used in the sand bags is included in Appendix B.

Geosyntec CQA personnel observed that these materials were placed in accordance with the locations and dimensions required by the Project Documents and in a manner intended to protect underlying geosynthetics.

6.2 Drainage Aggregate Laboratory Testing

Geosyntec personnel observed the placement of approximately 740 yd^3 of drainage aggregate. Geosyntec personnel collected one drainage aggregate sample for laboratory sieve analysis, insoluble residue, and hydraulic conductivity testing. This frequency meets the minimum requirement of one sieve analysis per 5,000 yd^3 and one hydraulic conductivity test per 10,000 yd^3 as outlined in the Project Documents. The results of the testing indicated that the drainage aggregate met the requirements of the Project Documents. The test results for the LDS gravel are included in Appendix E.

6.3 Sand Bag Laboratory Testing

Geosyntec personnel observed the placement of approximately 27,400 sand bags on the strip drainage composite along the slimes drain layer. Geosyntec personnel collected one sand sample for laboratory sieve analysis and insoluble residue testing during construction of the slimes drain system. This frequency meets the minimum requirement of one sieve analysis and insoluble residue test per project as outlined in the Project Documents. The results of the testing indicated that the concrete sand met

the general requirements of the Project Documents. The test results for the concrete sand are included in Appendix E.

7. PVC PIPE AND STRIP COMPOSITE

Comanco installed a total of approximately 3,625 linear feet of perforated 4" PVC pipe, approximately 290 linear feet of perforated and solid 18" PVC pipe, and approximately 27,400 linear feet of strip composite on this project. The tasks performed to construct the PVC pipe and Strip Composite components of the Project's composite liner system included the following:

- documenting the PVC pipe and strip composite storage methods at the site;
- reviewing the manufacturer's certification for general compliance with the Project Documents;
- documenting the acceptance and/or rejection of PVC pipe and strip composite materials;
- observing the piping was installed to grade; and
- monitoring and documenting the installation and joining of the PVC pipe and strip composite materials.

Documentation in support of the PVC pipe and strip composite materials and installation is presented in Appendix F and G, respectively.

7.1 Documentation

7.1.1 PVC Pipe Manufacturer Documentation

The Contractor submitted certification documentation provided by PW Eagle for the PVC pipe delivered to the site. Geosyntec compared the information contained in the manufacturer's documentation against the requirements listed in the Project Documents. The documentation included information regarding the properties of the material used to manufacture the pipe. Based on this comparison, the PVC pipe material delivered to the site met the requirements of the Project Documents. The submittal package for the PVC pipe is presented in Appendix B.

7.1.2 Strip Composite Manufacturer Documentation

The Contractor submitted certification documentation provided by GDE Control Products, Inc. for the rolls of strip composite delivered to the site. Geosyntec compared the information contained in the manufacturer's documentation against the requirements listed in the Project Documents. The documentation included information regarding the properties of the material used to manufacture the strip composite. Based on this comparison, the strip composite material delivered to the site met the requirements of the Project Documents. The submittal package for the strip composite materials is presented in Appendix B.

8. CONSTRUCTION QUALITY ASSURANCE – CONCRETE SPILLWAY

8.1 General

Geosyntec monitored the concrete placement in the concrete spillway. CQA activities in support of concrete placement included the following:

- Reviewing the submitted concrete mix design for general compliance with the Project Documents;
- Monitoring the subgrade surface is prepared in accordance with the Project Documents;
- Monitoring and documenting that the liner system components, along with the anchor trench and cushion geotextile, are installed in accordance with the requirements of the Project Documents;
- Monitoring and documenting that the welded wire fabric is installed in accordance with the requirements of the Project Documents;
- Sampling and testing of the material to evaluate compliance with the Project Documents;
- Documenting that the concrete was constructed by using equipment and methods indicated in the Project Documents; and
- Reviewing the concrete tickets prior to installing the concrete to monitor that the concrete meets the requirements outlined in the Project Documents.

8.2 Submittal Review

Geosyntec personnel reviewed the submittals for the concrete mix design. The submittals were in compliance with the Project Documents and are presented in Appendix M.

8.3 Conformance Sampling and Testing

Approximately 60 yd^3 of concrete was placed in emergency spillway area for the Project. One (1) concrete sample was taken by Geosyntec for conformance testing. The cylinders were cured and subjected to compression testing in accordance with ASTM C 172 and C31. The 7-day compression test results for the Project emergency spillway indicate that the average compression strength of the concrete is approximately

3,535 psi, which exceeds the minimum required compressive strength in the Project Documents of 3,000 psi at 28 days. The compression test results are presented in Appendix M-2.

8.4 Construction Quality Assurance Monitoring

Placement of concrete for the Project was monitored by Geosyntec personnel for compliance with the Project Documents. Geosyntec CQA personnel monitored:

- quality of the subgrade prior to concrete placement;
- placement and consolidation of concrete;
- placement of construction joints; and
- curing of concrete.

9. CONSTRUCTION QUALITY ASSURANCE – SURVEYING

Geosyntec personnel reviewed the surveyor's submittals to ensure the subgrade was graded to specified tolerances for the Project. Record drawings of the subgrade and limits of the liner system are included in Appendix K.

10. SUMMARY AND CONCLUSIONS

Construction of the liner systems associated with the Cell 4A at the White Mesa Mill site began on 9 October 2007 and was completed on 29 June 2008. During this time, Geosyntec provided CQA personnel on site to monitor construction and document consistency with the requirements of the Project Documents. As part of the CQA activities, Geosyntec personnel monitored the construction and installation of the following:

- earthworks (excavations, subgrade preparation, drainage aggregate, and anchor trench backfill);
- geosynthetics (woven / non-woven geotextiles, geonet, geomembrane, strip drainage composite, and GCL); and
- concrete.

During construction, Geosyntec CQA personnel performed conformance testing and CQA testing on the construction materials identified in this report at the frequencies required in the Project Documents. Geosyntec CQA personnel monitored that the materials used for construction conformed to the requirements of the Project Documents. A condition or material that was identified as not conforming to the requirements of the Project Documents or approved modifications thereto was corrected, repaired, and retested (as described in this report) or discarded and not used. Based on our observations and testing, Geosyntec concludes that the liner system associated with the Cell 4A at the White Mesa Mill Facility were constructed in accordance with the drawings, specifications, and approved modifications.

11. ENGINEER - OF - RECORD

Based on the observations made on site during the construction of the liner systems associated with the Cell 4A at the White Mesa Mill Facility site by Geosyntec personnel working under my direction and supervision as described herein and based on the logs and test results presented in the appendices to this report, the Project at the White Mesa Mill Facility site near Blanding, Utah was constructed in accordance with the Technical Specifications, CQA Plan, Construction Drawings, and design changes.

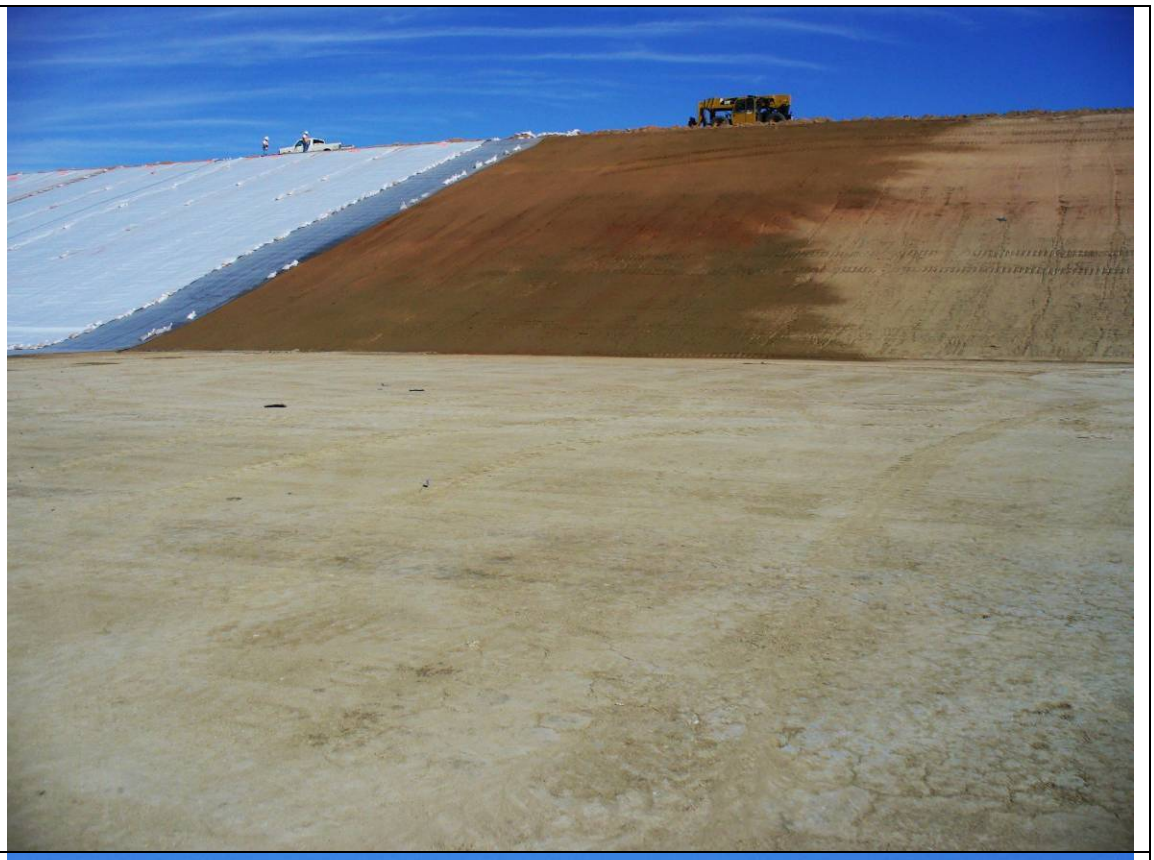
Gregory T. Corcoran

Registered Professional Engineer (Civil)

Certificate No. 6020077-2202

APPENDIX A

PHOTO LOG

Date: 10/19/07 Direction: N Hydrated subgrade.	
Date: 10/22/07 Direction: N Geosynthetic Clay Liner (GCL) deployment.	

Date: 10/22/07 Direction: N Seaming of secondary geomembrane.	
Date: 10/26/07 Direction: SE Leak Detection System (LDS) trench excavation.	

Date: 10/31/07 Direction: SW Seaming of secondary geomembrane.	
Date: 11/09/07 Direction: Deploying secondary geomembrane over hydrated GCL.	

Date: 11/12/07 Direction: N GCL hydration.	
Date: 11/12/07 Direction: W Anchor trench during GCL deployment.	

Date: 11/17/07 Direction: N Smooth drum roller used for subgrade preparation.	
Date: 04/25/08 Direction: N Geonet deployment.	

Date: 04/24/08 Direction: E Partial deployment of primary geomembrane (white) overlying geonet (black).	
Date: 04/28/08 Destructive Test Repair	

Date: 05/03/08 Completed Repair of the Geomembrane	
Date: 04/28/08 Operator performing trial seam weld testing using a field tensiometer.	

Date: 04/28/08 Direction: NW Primary geomembrane partially deployed over geonet.	
Date: 05/25/08 Direction: N Slimes Drain Construction	

Date: 06/02/08 Direction: SW Sump Excavation	
Date: 06/03/08 Direction: SW Looking upslope from excavated sump area.	

Date: 06/24/08 Direction: SW Completed primary liner.	

APPENDIX B

CONSTRUCTION DOCUMENTATION AND CORRESPONDENCE

APPENDIX B-1

DESIGN CHANGES

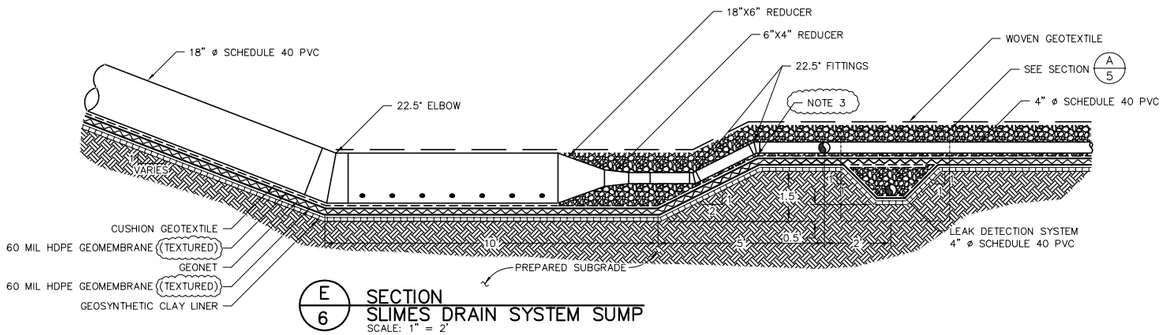
Addendum # 1

Issued to Comanco
White Mesa Mill Facility – Cell 4A Construction
Blanding, Utah

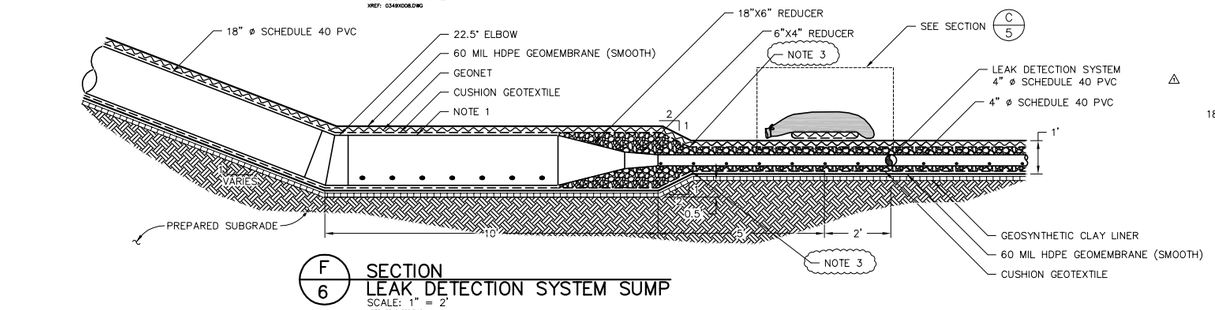
February 21, 2008

The following changes shall be incorporated into the Construction Drawings.

1. Remove Construction Drawing 6 of 7. Replace with new Construction Drawing 6 of 7 attached to this addendum. Areas where drawing changes occur are "clouded" for clarity.



E/6 SECTION
SLIMES DRAIN SYSTEM SUMP
SCALE: 1" = 2'
XREF: 0349X008.DWG



F/6 SECTION
LEAK DETECTION SYSTEM SUMP
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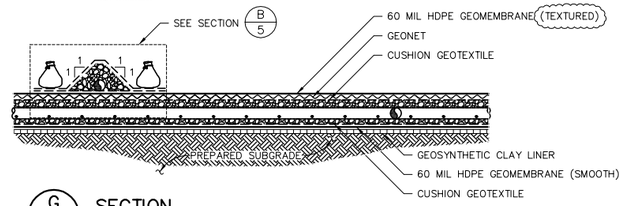
XREF: 0349X008.DWG



G/6 SECTION
SLIMES AND LEAK DETECTION SYSTEM SUMP
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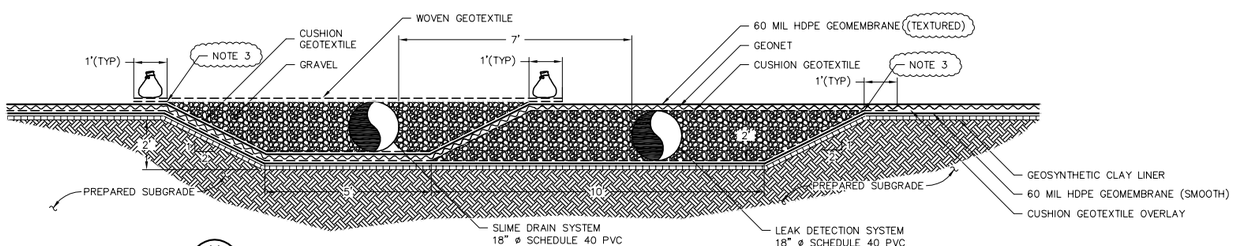
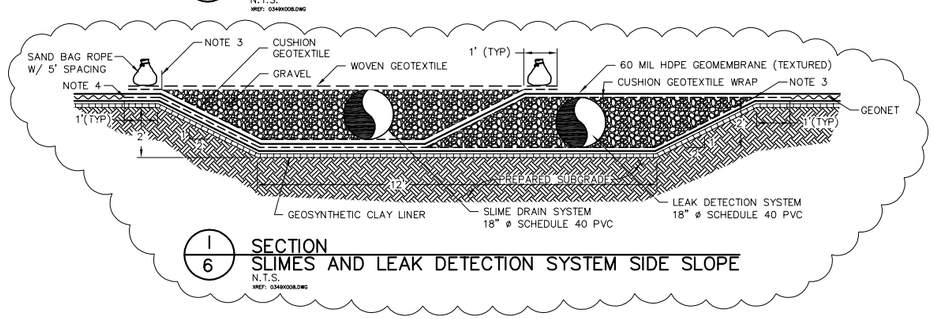
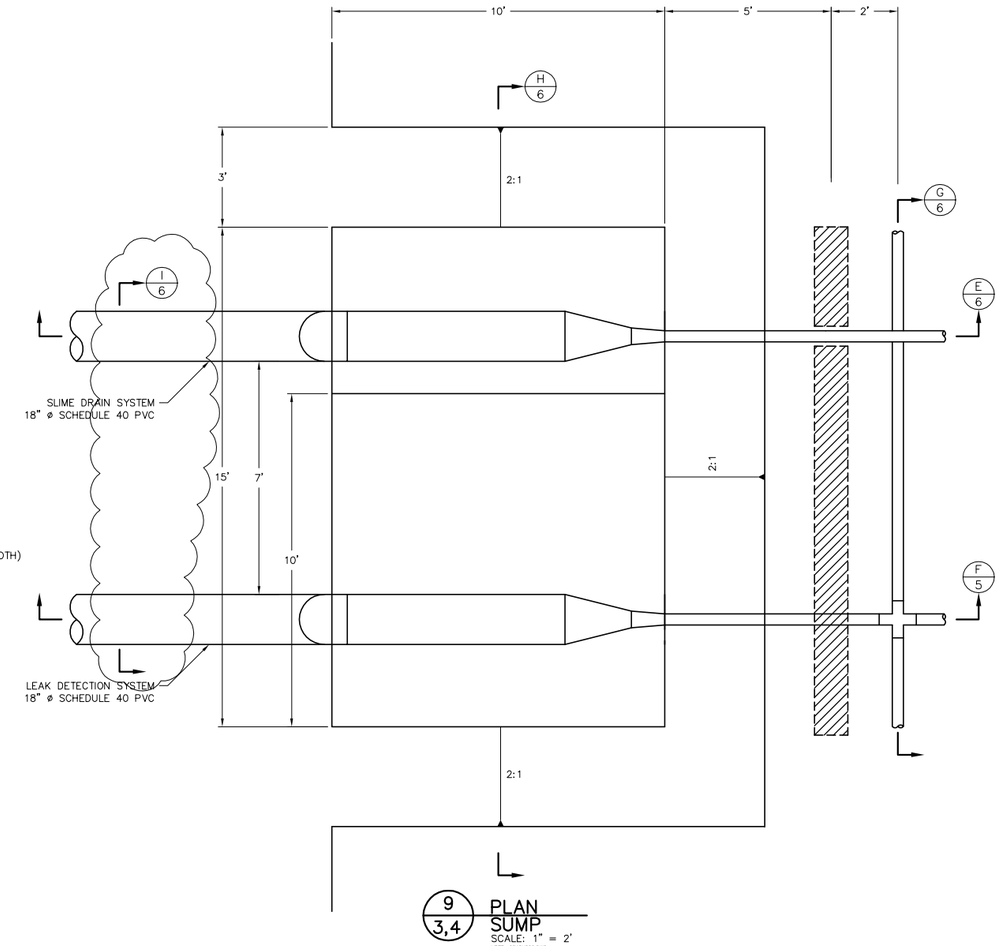


H/6 SECTION
SLIMES AND LEAK DETECTION SYSTEM SUMP
N.T.S.
XREF: 0349X008.DWG



I/6 SECTION
SLIMES AND LEAK DETECTION SYSTEM SIDE SLOPE
N.T.S.
XREF: 0349X008.DWG



9/3,4 PLAN
SUMP
SCALE: 1" = 2'
XREF: 0349X008.DWG

NOTES:

1. HORIZONTAL PORTION OF 18-IN ø PVC PIPE SHALL BE PERFORATED AS INDICATED ON DETAIL 8, SHEET 5.
2. DETAILS ARE SHOWN TO SCALE INDICATED EXCEPT FOR THE GEOSYNTHETICS, WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY, SOIL THICKNESS ARE MINIMUMS.
3. LIMIT OF TEXTURED GEOMEMBRANE.
4. LIMIT OF GEONET.

REV	DATE	DESCRIPTION	DRN	APP
1	6/15/07	UDEQ REVISIONS	MD	GTC
2	02/20/08	SUMP CONSTRUCTION REVISION	MD	GTC

Geosyntec consultants
10875 RANCHO BERNARDO RD, SUTE 200
SAN DIEGO, CA 92127
PHONE: 858.674.6559

DENISON MINES
6425 S. HIGHWAY 191
P.O. BOX 809
BLANDING, UTAH 84511
PHONE: 858.674.6559

TITLE: LINING SYSTEM DETAILS II

PROJECT: CELL 4A WHITE MESA MILL

SITE: BLANDING, UTAH

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

DESIGN BY:	GTC	DATE:	JUNE 2007
DRAWN BY:	MAD	PROJECT NO.:	SC0349
CHECKED BY:	GTC	FILE:	
REVIEWED BY:	GTC	DRAWING NO.:	
APPROVED BY:	GTC	6 OF 7	

P:\PRJ\SDCadd\CADD\SC0349\PlanSet_Cell 4a\SC0349_Cell 4A_04-01-08\0349C006.dwg

APPENDIX B-2

CONTRACTOR'S SUBMITTALS

Geosyntec consultants

DENISON MINES

SUBMITTAL LOG

PROJECT: Cell 4A Lining System PROJECT NO. SC0349 TASK NO.: 02
LOCATION: Blanding, Utah YEAR: 2008
DESCRIPTION: White Mesa Mill Facility - Cell 4A
CONTRACTOR: Comanco Environmental Corporation

REFERENCE NO.	SUBMITTAL TITLE	REVISION	DATE SUBMITTED (day/mo/yr)	DATE REVIEWED (day/mo)	RE-SUBMIT		DATE APPROVED (day/mo)	COMMENTS
					YES	NO		
1	Baseline Schedule		6/29/06	6/29/06		x	6/29/06	
2	Certificate of Insurance		8/6/06	8/21/06		x	8/21/06	
3	QA/QC Manual		8/4/06	8/21/06		x	8/21/06	
4	PVC Pipe		8/7/06	8/21/06		x	8/21/06	
5	Strip Composite		8/21/06	8/21/06	x		8/21/06	
5R	Strip Composite		9/1/06	8/23/06		x	8/23/06	
6	Drainage Aggregate		8/7/06	8/21/06			8/21/06	
7	Manufacturer Approval Letter		8/4/06	8/21/06		x	8/21/06	
8	Completed Projects		8/4/06	8/21/06		x	8/21/06	
9	Resumes		8/4/06	8/21/06		x	8/21/06	
10	Geotextile		8/4/06	8/21/06		x	8/21/06	
11	Geosynthetic Clay Liner		8/4/06	8/21/06		x	8/21/06	
12	Geonet		8/4/06	8/21/06		x	8/21/06	
13	Proposed Panel Layouts Primary		3/1/07	3/1/07		x	3/1/07	
14	(See Submittal 39)		--	--			--	
15	Geomembrane Installation Warr		8/4/06	8/21/06		x	8/21/06	
16	Geomembrane Material Warran		8/4/06	8/21/06		x	8/21/06	
17	Sample GCL Material Warranty		8/4/06	8/21/06		x	8/21/06	
18	Geonet Material Warranty		8/4/06	8/21/06		x	8/21/06	
19	Geotextile Material Warranty		8/4/06	8/21/06		x	8/21/06	
20	Low Ground Pressure Equipmer		8/4/06	9/5/06		x	9/5/06	
21	Geomembrane Properties and S		8/4/06	8/21/06		x	8/21/06	
22 / 22R	Manufacturer's Exceptions/Clari		8/4/06	8/30/06	x		9/1/06	
23	NCTL Test Results		8/4/06	8/21/06		x	8/21/06	

23-2	NCTL Test Results		8/4/06	8/21/06		x	8/21/06	
24	Geomembrane NCTL Test Resu		8/14/06	8/31/06		x	9/5/06	
24-2	Geomembrane Roll Test Data R		8/14/06	8/14/06		x	8/14/06	
24-3	Geomembrane Roll Test Data R		8/15/06	8/15/06		x	8/15/06	
24-4	Geomembrane Roll Test Data R		8/18/06	8/18/06		x	8/18/06	
24-5	Geomembrane Roll Test Data R		8/18/06	8/18/06		x	8/18/06	
25-6	Geomembrane Roll Test Data R		8/23/06	8/23/06		x	8/23/06	
25-7	Geomembrane Roll Test Data R		9/5/06	9/5/06		x	9/5/06	
25-8	Geomembrane Roll Test Data R		9/6/06	9/6/06		x	9/6/06	
25-9	Geomembrane Roll Test Data R		9/12/06	9/4/06		x	9/12/06	
25-10	Geomembrane Roll Test Data R		9/15/06	9/15/06		x	9/15/06	
25-11	Geomembrane Roll Test Data R		9/29/06	9/29/06		x	9/29/06	
26	NCTL Certification Letter from		9/12/06	9/12/06		x	9/12/06	
27	GCL Roll Test Data		9/15/06	9/15/06		x	9/18/06	SSI
27-1	GCL Roll Test Data		9/15/06	10/2/06		x	10/2/06	SSI
27-2	GCL Flux & Permeability Test I		9/18/06	9/18/06		x	9/18/06	
27-3	GCL Roll Test Data		9/18/06	9/18/06		x	9/18/06	
27-4	GCL Hydraulic Flux Test Data		12/7/06	12/7/06		x	12/7/06	
28	Geonet Roll Test Data Reports		11/17/06	11/17/06		x	11/20/06	
28-1	Geonet Roll Test Data Reports		12/7/06	12/7/06		x	12/7/06	
28-2	Geonet Roll Test Data		1/4/07	1/4/07		x	1/4/07	
29	Geotextile Roll Data		12/20/06	12/20/06		x	12/21/06	
30	Woven Geotextile Properties		9/18/07	9/18/07		x	9/18/07	
31	GCL Roll Test Data - ADDITIC		12/10/07	12/10/07		x	12/11/07	
32	Geonet Conceptual Panel Layou		5/9/08	5/9/08		x	5/9/08	
33	GCL MQA		4/29/08	5/7/08		x	5/7/08	
34	60 Mil Textured HDPE Product		5/5/08	5/7/08		x	5/7/08	
35	60 Mil Textured HDPE MQA D		5/8/08	5/9/08		x	5/9/08	
36	60 Mil Smooth HDPE MQA Da		5/8/08	5/19/08		x	5/19/08	
37	(Intentionally Left Blank)		--	--	--	--	--	
38	NW Geotextile Properties Sheet		5/30/08	6/4/08		x	6/4/08	
39	Concrete Properties Sheets		5/30/08	6/4/08		x	6/4/08	CAN
39 R	Concrete Properties Sheets		6/7/08	6/9/08		x	6/9/08	
40	Geonet Roll Test Data		6/29/08	6/29/08		x	6/29/08	
SSI	Submit Specified Items							
CAN	Correct As Noted							

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 29 June 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 1	Revision No.: -	Contractor Submittal No.: 1
Specification Section(s): 1300, 1.06, A. 1.	Date of Submittal Report: 29 June 2006	
Submittal Subject: Baseline Schedule		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

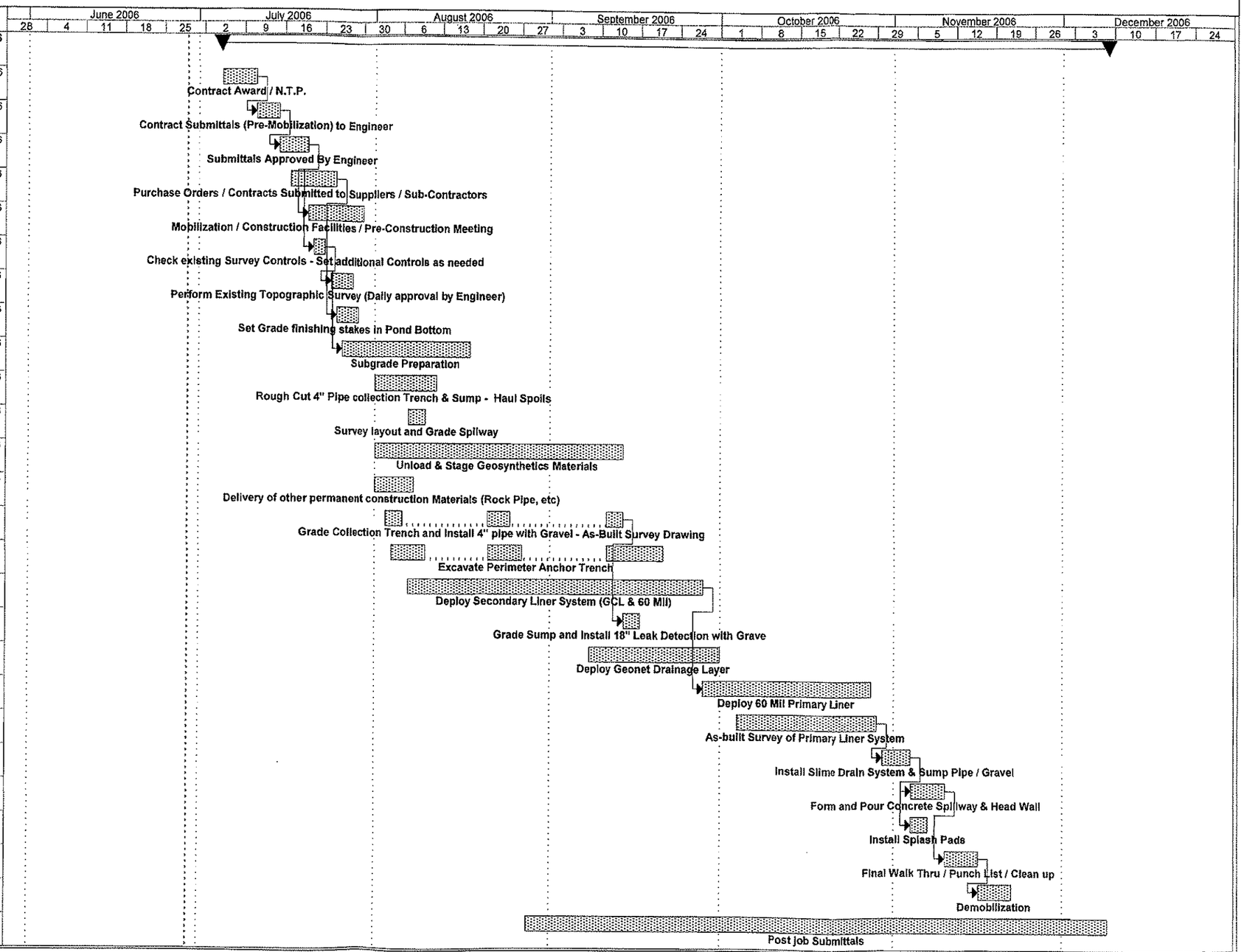
Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by	**Date**
Engineer-of-Record Gregory T. Corcoran, P.E	6/29/06 **Date**

Distribution: ☒ File

IUC White Mesa Mill
Cell 4A Lining System
Blanding, Utah
COMANCO Construction Schedule

ID	Task Name	DUR	Start	Finish
1	**Total Days**	**135 d?**	**Wed 7/5/06**	**Fri 12/8/06**
2	Contract Award / N.T.P.	5 d	Wed 7/5/06	Mon 7/10/06
3	Contract Submittals (Pre-Mobilization) to Engineer	4 d	Tue 7/11/06	Fri 7/14/06
4	Submittals Approved By Engineer	4 d	Sat 7/15/06	Wed 7/19/06
5	Purchase Orders / Contracts Submitted to Suppliers / Sub-Contractors	7 d	Mon 7/17/06	Mon 7/24/06
6	Mobilization / Construction Facilities / Pre-Construction Meeting	9 d	Thu 7/20/06	Sat 7/29/06
7	Check existing Survey Controls - Set additional Controls as needed	2 d	Fri 7/21/06	Sat 7/22/06
8	Perform Existing Topographic Survey (Daily approval by Engineer)	4 d	Mon 7/24/06	Thu 7/27/06
9	Set Grade finishing stakes in Pond Bottom	4 d	Tue 7/25/06	Fri 7/28/06
10	Subgrade Preparation	20 d	Wed 7/26/06	Thu 8/17/06
11	Rough Cut 4" Pipe collection Trench & Sump - Haul Spoils	10 d	Tue 8/1/06	Fri 8/11/06
12	Survey layout and Grade Spilway	3 d	Mon 8/7/06	Wed 8/9/06
13	Unload & Stage Geosynthetics Materials	38 d	Tue 8/1/06	Wed 9/13/06
14	Delivery of other permanent construction Materials (Rock Pipe, etc)	6 d	Tue 8/1/06	Mon 8/7/06
15	Grade Collection Trench and Install 4" pipe with Gravel - As-Built Survey Drawing	10 d	Thu 8/3/06	Wed 9/13/06
16	Excavate Perimeter Anchor Trench	20 d	Fri 8/4/06	Wed 9/20/06
17	Deploy Secondary Liner System (GCL & 60 Mil)	45 d	Mon 8/7/06	Wed 9/27/06
18	Grade Sump and Install 18" Leak Detection with Grave	3 d	Thu 9/14/06	Sat 9/16/06
19	Deploy Geonet Drainage Layer	20 d	Fri 9/8/06	Sat 9/30/06
20	Deploy 60 Mil Primary Liner	26 d	Thu 9/28/06	Fri 10/27/06
21	As-built Survey of Primary Liner System	22 d?	Wed 10/4/06	Sat 10/28/06
22	Install Slime Drain System & Sump Pipe / Gravel	5 d	Mon 10/30/06	Fri 11/3/06
23	Form and Pour Concrete Spillway & Head Wall	5 d	Sat 11/4/06	Thu 11/9/06
24	Install Splash Pads	2 d	Sat 11/4/06	Mon 11/6/06
25	Final Walk Thru / Punch List / Clean up	5 d	Fri 11/10/06	Wed 11/15/06
26	Demobilization	5 d	Thu 11/16/06	Tue 11/21/06
27	Post job Submittals	89 d?	Mon 8/28/06	Fri 12/8/06



IUC White Mesa
Cell 4A Construction
June 29, 2006

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor	**Date:** 21 August 2006	**Job No.:** SC-0349-02
ADDRESS:	Comanco Environmental Corporation	**Project Name**	
	1135 Terminal Way, Suite 204A	International Uranium (USA) Corporation	
	Reno, Nevada 89502	White Mesa Mill	
		Cell 4A	

Submittal I.D. No.: 2	Revision No.: -	Contractor Submittal No.: 2
Specification Section(s): Section 2-8	Date of Submittal Report: 4 August 2006	
Submittal Subject: Certificate of Insurance		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 13:16:22 -07'00'

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Print Name/Sign Name		Gregory T. Corcoran, P.E	

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 2 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Certificate of Insurance

Specification Identifier: Part II, 1.8., 1.8.7

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved	[ ] Code 4 - Approved As Noted, Resubmit
[ ] Code 2 - Approved As Noted	[ ] Code 5 - Not Approved
[ ] Code 3 - Approved As Noted, Confirm	[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☒ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

ACORD CERTIFICATE OF LIABILITY INSURANCE

OP ID M2 COMAN-1 | DATE (MM/DD/YYYY) 07/07/06

PRODUCER
Wallace Welch & Willingham Inc
300 First Avenue South, 5th Fl
P.O. Box 33020
St. Petersburg FL 33733
Phone: 727-522-7777 Fax: 727-521-2902

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
The Comanco Group, Inc.
4301 Sterling Commerce Dr
Plant City FL 33566

INSURERS AFFORDING COVERAGE		NAIC #
INSURER A:	Amer Cas Co of Reading PA	20427
INSURER B:	Arch Specialty Insurance Co.	
INSURER C:	Continental Casualty Co./CNA	20443
INSURER D:	RLI Insurance Company	13056
INSURER E:		

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
B		GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR X Pollution Claims GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC	EMP001198900	12/31/05	12/31/06	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG Emp Ben.	$ 2,000,000 $ 50,000 $ 5,000 $ 2,000,000 $ 2,000,000 $ 2,000,000 1,000,000
D		AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	CAP9500271	07/01/06	07/01/07	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
B		EXCESS/UMBRELLA LIABILITY X OCCUR CLAIMS MADE DEDUCTIBLE X RETENTION $ 10,000	EMX001199100	12/31/05	12/31/06	EACH OCCURRENCE AGGREGATE over GL, Auto, EL	$ 10,000,000 $ 10,000,000 $ $ $
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC257351958	07/01/06	07/01/07	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
C		OTHER Leased Equipment 5,000 Deductible	2076765528	07/01/06	07/01/07	Per Item total lim	500,000 1,500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Project: White Mesa
International Uranium Corporation is additional insured with respect to General Liability.
*10 day notice for non-payment of premium.

CERTIFICATE HOLDER

INTUR-2
International Uranium Corporation
6425 S Hwy 191
PO Box 809
Blanding UT 84511

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL *30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

© ACORD CORPORATION 1988

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor	**Date:** 21 August 2006	**Job No.:** SC-0349-02
ADDRESS:	Comanco Environmental Corporation	**Project Name**	
	1135 Terminal Way, Suite 204A	International Uranium (USA) Corporation	
	Reno, Nevada 89502	White Mesa Mill	
		Cell 4A	

Submittal I.D. No.: 3	Revision No.: -	Contractor Submittal No.: 3
Specification Section(s): 02070	Date of Submittal Report: 4 August 2006	
Submittal Subject: QA/QC Manual		

Notations:

- ☐ No Exception Taken
- ☒ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Construction Quality Control Section 9.4 – change welding window to below 40 degrees instead of 32 degrees.

Field Quality Assurance Section 2.3.2 – maximum allowable drop of 3 psi instead of 4 psi.

Field Quality Assurance Section 3.1.2 – destructive sample 42" long instead of 36" long.

Field Quality Assurance Section 3.1.6 – Peel and shear testing in accordance with ASTM D 6392.

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 13:33:01 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 3 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: QA/QC Manual

Specification Identifier: N/A

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved	[ ] Code 4 - Approved As Noted, Resubmit
[ ] Code 2 - Approved As Noted	[ ] Code 5 - Not Approved
[ ] Code 3 - Approved As Noted, Confirm	[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☐ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☒ MAKE CORRECTIONS NOTED
☐ REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By:

COMANCO®

ENVIRONMENTAL CORPORATION

QUALITY CONTROL MANUAL

For the Installation and Field Quality Control of
HDPE and LLDPE Geomembrane

PREPARED FOR

IUC WHITE MESA MILL – CELL 4A LINING SYSTEM

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Introduction

People	Comanco's team of managers, engineers, marketing/sales representatives, office support personnel, construction supervisors, and installation technicians provides its customers with a level of expertise and performance unequaled in the geosynthetics industry.
Installation	Comanco installs geosynthetic lining systems with its own forces. Crew sizes, equipment complements, and work schedules are customized to accommodate job site requirements. Our Corporate Office located in Tampa, FL and regional construction centers in Baton Rouge, LA; and Reno, NV, are staffed with experienced project managers and technical support personnel, and act as mobilization points for crew superintendents, master seamers, liner technicians, equipment operators, and quality control technicians. Comanco owns a large inventory of specialty equipment, including double wedge, hot air and extrusion welders, sewing machines, grinders, generators, tensiometers, vacuum test boxes, and spark testers. A full time Corporate Safety Manager conducts and documents on-site safety meetings, in house and on site continuing hands on task training, provides a safe work environment for employees and ensures that Comanco complies with OSHA, MSHA, and other construction industry safety standards.
Quality Control	Comanco is committed to quality, service, and safety. Through continuous training and development, stringent construction quality control (CQC) procedures result in the highest quality field installation work.
Conclusion	Comanco Environmental Corporation offers quality geosynthetic products and a level of service unmatched in the lining industry. Our unique combination of resources offers our customer assurance that a Comanco lining system will meet or exceed the project's performance requirements.

Polyethylene

Construction Quality Control (CQC)

Quality Control Program

1. **HDPE and LLDPE Geomembrane Construction Quality Control**

   1.1 Comanco Environmental installs HDPE (High Density Polyethylene) and LLDPE (Linear Low Density Polyethylene) geomembranes. Documentation is required showing that the installation meets the required specification.

2. **Delivery, Storage and Handling**

   2.1 Equipment used for offloading and handling of materials shall have adequate load rating and reach to unload materials in a safe manner. Fabric straps or other approved apparatus are used for handling of material. Care shall be taken to prevent damage to the geosynthetic materials during offloading.

   2.2 The storage area must be as close as practical to the work area to minimize on site handling. A storage area is required that is reasonably flat, dry, and well drained. The storage area surface shall be smooth, flat, and free of rocks or other objects that could cut or puncture or otherwise damage the liner. The unloading shall be performed by Comanco or by the customer, depending on the arrangements for a particular project. The storage area must be secure to prevent vandalism and thefts and must be such that rolls are not likely to be damaged by passing vehicles. Rolls of geomembrane do not need protection from normal weather conditions.

3. **On-site Material Inspection**

   3.1 Rolls or packages of lining material shall be inspected on site. The material shall be inspected and compared with the project specification to assure that the correct material for the job has been received. The material shall also be inspected for damage that may occur during shipment or unloading. Identification labels on material rolls shall be inspected and roll numbers recorded. The roll number is unique and shall be used to identify the roll in QC testing and to determine which panels are cut from an individual roll.

4. **Equipment**

   A. Welding Equipment: The Geomembrane Contractor shall provide welding equipment equipped with gauges showing temperatures at the nozzle (extrusion welder) or at the wedge (wedge welder) or have the equipment capable of measuring the temperature of the nozzle (hot air). Equipment shall be maintained in adequate number to avoid delaying work, and shall be supplied by a power source capable of providing constant voltage under a combined-line load.

   B. Coupon Cutter: The Geomembrane Contractor shall provide a punch press for the on-site preparation of specimens for testing. The press shall be capable of cutting specimens in substantial accordance with ASTM D4437.

   C. Field Tensiometer: The Geomembrane Contractor shall provide a tensiometer for on-site shear and peel testing of geomembrane seams. The tensiometer shall be in good working order, built to ASTM specifications, and accompanied by evidence of calibration within one year. It shall be equipped with a load cell that measures the force in unit pounds exerted between the jaws and have a digital readout.

   D. Vacuum Box: The Geomembrane Contractor shall provide a vacuum box for on-site testing of geomembrane seams. The vacuum box shall have a transparent viewing window on top and a soft closed-cell neoprene gasket attached to the bottom. The housing shall be rigid and equipped with a valve and vacuum gauge. The equipment shall be capable of inducing and holding a vacuum of 5 psi.

   E. Gauge and Air Pump: An air pump capable of sustaining 35 psi, and a gauge with a read out of at least 35 psi.

5. Subgrade Preparation

5.1 The subgrade is prepared by the owner or by the contractor according to the specifications. The surface must be smooth, with no rapid or abrupt changes of grade such as steps or settlement next to concrete structures. All slopes and surfaces must be compacted to ensure the integrity of the membrane. Any differential settlement or sliding of the side slopes could rupture the membrane.

5.2 The surface of the subgrade must contain no sharp rocks or other debris that could damage the membrane.

5.3 A visual inspection of the subgrade shall be performed to determine that it is suitable to be lined. Comanco's acceptance of the subgrade surface, after lining by panel, shall be recorded on the relevant form.

6. Anchoring

6.1 The membrane is anchored as shown on the plans and approved drawings. The anchor trench is to be excavated, by the owner or contractor to the lines and dimensions indicated on the approved plans and specification.

6.2 Final backfilling and compaction by the owner or contractor should commence only after the membrane has had time to expand or contract into its final position. Sandbags are placed on all loose edges of the panel. These precautions are necessary to prevent the membrane from being uplifted by wind and possibly being damaged.

Deployment, welding, testing, and all other associated geosynthetic work by Comanco Environmental may proceed only after it has been determined, by the onsite Comanco personnel, that the work can be accessed and performed safely by employees and that conditions allow for the consistent quality and integrity of the work to be performed.

7. Deployment

7.1 Geomembrane panels shall be unrolled using methods that will not damage, stretch, or crimp the Geomembrane. Ballast that will not damage the geomembrane shall be used to prevent uplift due to wind. Methods used shall minimize wrinkles.

7.2 Panels shall be oriented perpendicular to the line of the slope crest (i.e., down and not across slope). For slopes steeper than 10:1, cross seams parallel to the crest or toe will be located at least 5 feet from the crest or the toe of slope. When staggered (a minimum of 5' offset) cross seams on slopes are acceptable unless otherwise specified.

7.3 Each panel deployed shall be assigned a simple and logical identifying code consistent with the order of deployment. An identifier (either numeric or alpha-numeric) shall be given to each panel used for the installation. This identification number shall be related to a material manufacturer roll number, which identifies the resin type, batch number, date of manufacture, and other relevant material properties. Assigned panel numbers with their related manufacturers roll stock number shall be recorded on the appropriate form. No more panels shall be deployed in one day than can be welded during that same day.

7.4 Personnel walking on the geomembrane shall not wear types of shoes that could damage the geomembrane. Smoking shall not be permitted while working on the geomembrane.

7.5 Vehicular traffic on the geomembrane shall be minimized. Equipment shall not damage the geomembrane by handling, trafficking, leakage of hydrocarbons, or any other means.

7.6 Comanco may use low ground pressure devices such as ATV's and tractors to help facilitate deployment over other geosynthetic layers. Low ground pressure devices are machines with less than 7 psi per wheel when carrying a driver weighing approximately 150 lbs. The typical specification for equipment working directly over the geosynthetics placing cover material is 7 psi. Using low ground pressure machines also results in a safer work environment. Utilizing low ground pressure machines results in less exertion by field personnel thus reducing the potential for strain related injuries.

7.6 Sufficient material shall be provided to allow for geomembrane shrinkage and contraction and to minimize bridging. The Superintendent shall determine the amount of additional geomembrane required for compensation based on the weather conditions during installation. Subsequent cover material (when required), minimal effluent levels (for liquid effluents), and/or a permanent ballast system is necessary to prevent bridging and potential membrane wind damage over time.

8. Placement of Membrane Panels

8.1 Panel placement will be per the project specifications and will be installed and sequenced in a manner which will allow for safe handling, minimize field seaming, and minimize waste. The layout and sequence of the panel placement is generally determined by the direction of rain run-off. Generally, the installation is started at the upwind side and at the highest elevation so that any rainfall runs off to the lower part of the impoundment, this prevents water from getting under the membrane. Other factors and site specific conditions such as owner requirements, prevailing winds, coordination between other required work and contractors, schedule, design changes, access, efficiency, available approved subgrade, and other on site and existing conditions may influence actual finished panel layout and sequencing. When in position, panels are checked for any physical damage caused either during manufacture or during installation.

8.2 Rolls of geomembrane material are unrolled using equipment with adequate load rating and reach, and specially designed lifting apparatus that is attached to the equipment. This enables the panels to be placed in position without heavy equipment running on the material. Panels are laid so the top sheet laps the bottom sheet.

9. Preparation for Seaming

9.1 The seam numbering system shall be compatible with panel coding system. Seam identification numbers and welding parameters shall be recorded on the appropriate form.

9.2 The surface of the geomembrane shall be cleaned to remove moisture, dust, dirt, debris, or other foreign material. Solvents or adhesives shall not be used.

9.3 Fishmouths or wrinkles at seam overlaps shall be cut to achieve a flat overlap. The cut fishmouths or wrinkles shall be welded where the overlap is more than three (3) inches. When there is less than three inches overlap, an oval or round patch extending a minimum of six inches beyond the cut in each direction shall be used.

9.4 The general ambient temperature range for seam welding is between 32°F and 110°F. For temperatures below 32°F, the following procedures shall be utilized when it is determined that work can be continued safely.

9.4.1 When the weather is clear and sunny with gentle winds (10 mph or less) wedge welding can normally be performed at an ambient temperature below 32°F (liner temperature is usually warmer than ambient due to the sun) without additional provisions other than adjusting the welding machine. Welding temperatures and machine speeds are adjusted to compensate for cloudy weather and higher winds.

9.4.2 For ambient temperatures below 32°F trial weld results should be used to determine if welding can continue. A new trial seam should be made for every ambient temperature drop at 10°F increments from the original trial seam made and tested for seam welding below 32°F.

9.4.3 When extreme cold or other adverse site weather conditions do not allow for passing weld results, utilizing welding machine set temperatures and machine speed adjustments; some means of preheating the liner other than that provided by the welding machine may be needed. Types of preheating (space heaters, temporary shelters and combinations of the two) will be determined by the individual job conditions. Welding under adverse conditions may proceed only when passing weld test results are achieved and it is determined, by Comanco, that the work can be reasonably accessed and performed safely by the field employees and assured work quality can be consistently achieved.

9.5 Trial Welds: Trial welds shall be performed on geomembrane samples to verify welding equipment operations and performance of seaming methods and conditions. At a minimum one trial weld, per welding apparatus, will be made prior to the start of work and one completed mid shift. Welds shall be made under the same surface and environmental conditions as the production welds (i.e., in contact with geomembrane subsurface and similar ambient temperature).

9.6 Trial Weld Testing: Samples shall be at least ten feet long and one foot wide with the seam centered lengthwise. Five, one inch wide tests strips shall be cut from the trial weld. Each of the specimens shall be tested in the field for peel. A trial weld specimen shall pass when the results are achieved for peel tests as shown in the specifications. For double-wedge welding, both welds shall be individually tested and both shall be required to pass in peel. Trial weld results and welding parameters will be recorded on the appropriate form.

10. Welding Procedures

10.1 Fusion (Wedge) Welding:

11.1.1 Fusion (wedge) welding utilizes a metallic wedge heated to the required temperature and guided between the lapped edges of adjacent panels. The wedge heats the area of the two panels to be joined to the required temperature. Then, immediately following the wedge, are sets of rollers, which exert the required pressure on the heated area to obtain fusion between the adjoining panels. Prior to welding, adjacent panels are lapped four 4 inches, and the weld area is cleaned. Welding apparatus shall be automated, and equipped with devices giving applicable temperatures.

10.1.2 The welding machine is aligned and set to the required temperature (depending on the material thickness), and the machine travel speed is set to the required setting for the applicable material thickness.

10.1.3 When the welding machine is operating as required a trial seam is made on strips of lining material and then tested on site per details in the specifications. The tests on the trial seam must pass before welding on the membrane is started.

10.1.4 As the welding progresses, the welding operator takes care to assure correct machine speed, temperature, and alignment.

10.2 Extrusion Welding:

10.2.1 Adjacent panels shall be tack bonded together using procedures that do not damage the geomembrane, and are not detrimental to final seaming. Welding apparatus shall be free of heat-degraded extrudate before welding. The geomembrane surface shall be abraded with a maximum of ¼ inch beyond the weld bead area, using a disc grinder, or equivalent.

The top edges of geomembrane 60 mil or greater shall be beveled 45° using a hand held grinder. Grinding depth shall not exceed ten percent of the liner thickness. The ends of all seams, which are more than five minutes old, shall be ground when restarting the weld.

10.2.2 Extrusion welding entails placing a hot extrudate of the same material as the sheet on top of the preheated lap of two adjoining sheets while simultaneously applying pressure, and utilizes a welding rod made from the same type of resin as the membrane. The welding rod is melted inside the extrusion welding machine to form the hot extrudate which is placed on top of the preheated lap of two adjoining sheets. Preheating of the sheet in the weld area is performed by the extrusion welding machine.

10.2.3 The Teflon shoe determines the profile of the molten extrudate. The temperature controllers are set to appropriate temperatures and the machines are allowed to heat up to the set temperature.

10.2.4 When the seam area is prepared, the welding machine is positioned so the nozzle and the shoe are flat on the seam. As the machine is moved forward, care is taken to assure that the point of the preheat nozzle is centered on the edge of the top sheet and is as close to the sheet as possible.

10.2.5 When the welding machine is operating as required a trial seam is made on strips of lining material and then tested, on site, per details in the specifications. The tests on the trial seam must pass before welding on the membrane.

10.2.6 As the welding progresses, the welding operator takes care to assure correct machine speed, temperature, and alignment.

10.2.7 The primary method or "production" welding will utilize wedge welding; extrusion welding will be used for repairs and detailing or as needed.

11. Seam Inspection and Repair

11.1 After welding, a close visual inspection of the seam is made. The inspection is to include weld alignment. For extrusion welding, the weld thickness and profile is inspected.

11.2 Defective areas are marked and repaired; the repairs are inspected and approved. This inspection/repair process is carried out in a systematic manner as soon as possible to ensure that no defective area goes un-repaired.

11.3 The following procedures shall apply whenever a sample fails the destructive test:

11.3.1 The installer shall reconstruct the seam between the failed location and any passed test location.

11.3.2 The installer may retrace the welding to an intermediate location (at a minimum of ten feet from the location of the failed test) and take a sample for an additional destructive test. If this test passes, then the seam shall be reconstructed between the passing test location and the original failed test location. If the test fails, the process is repeated until a passing test location is identified.

11.3.3 One of the following methods may be utilized to reconstruct failed seam areas:

- The failed area of the seam may be removed and additional strip of liner added and welded into place.
- The failed seam area can be left in place and a "cap strip" of liner extrusion welded over the top of the failed seam area.
- The failed area of the seam may be removed, and the entire panel shifted over to the proper overlap then a new weld constructed.
- Heat tacking and extrusion welding the outer flap on wedge seams.

Field Quality Assurance

Testing Requirements

1. **Conformance Testing (By CQA Consultant)**

1.1 When conformance testing of the geomembrane material is required per specification, and the samples have not been taken in the plant, samples shall be obtained in the field at a frequency defined in the project specifications. The CQA Consultant shall obtain samples and forward to the laboratory, care shall be taken not to damage the geomembrane during sampling.

2. **Non-Destructive Testing**

2.1 Non-destructively test all field seams over their full length using vacuum box testing, air pressure testing for fusion (wedge) welded seams only, or spark testing. Generally non-destructive testing is carried out as the seaming progresses. Non destructive test results shall be documented on the appropriate form.

2.2 Vacuum box testing shall conform to the following requirements:

2.2.1 The equipment shall include vacuum box assemblies consisting of the following: a rigid housing, a transparent viewing window, a soft neoprene gasket attached to the bottom, a port hole or valve assembly, a vacuum gauge, a vacuum device equipped with pressure control, and a soapy solution and an applicator.

2.2.2 Testing shall conform to the following procedure: Brush soapy solution on geomembrane seam. Place vacuum box over the wetted seam area. Ensure that a leak-tight seal is created. Apply a vacuum of approximately 5 psi. Examine the geomembrane through the viewing window for the presence of soap bubbles in the seam area. All seam areas where soap bubbles show the presence of a leak shall be marked and repaired as described in this section.

2.3 Air pressure testing for fusion (split wedge) welded seam with an enclosed space, shall conform to the following requirements:

2.3.1 The equipment shall consist of the following: an air pump (manual or motor driven) equipped with pressure gauge capable of generating and sustaining pressure over 35 psi, a rubber hose with fittings and connections, a sharp hollow needle, or other approved pressure feed device, and a pressure gauge.

2.3.2 Testing shall conform to the following procedure: Seal both ends of the seam to be tested. Insert needle or other approved pressure-feed device into the channel created by the double-wedge weld. Energize the air pump to a minimum pressure as indicated below, close the valve, allow pressure to stabilize and sustain the pressure for at least five minutes. If pressure loss exceeds the allowable drop or does not stabilize, locate faulty area and repair as described in this section. Puncture opposite end of the seam to release air. If blockage is present, locate and test seam on both sides of blockage. Remove needle or other approved pressure-feed device and seal penetration holes by extrusion welding as necessary.

Material and Test Maximum Acceptable Pressure and Pressure Loss

	HDPE Geomembrane	
Thickness	Max. Pressure	Allowable Drop
20 mil	20 psi	5 psi
30 mil	25 psi	5 psi
40 mil	30 psi	4 psi
60 mil	30 psi	4 psi
80 mil	30 psi	4 psi
100 mil	30 psi	4 psi

LLDPE GEOMEMBRANE		
THICKNESS	MAX. PRESSURE	ALLOWABLE DROP
20 mil	20 psi	5 psi
30 mil	25 psi	5 psi
40 mil	30 psi	4 psi
60 mil	30 psi	4 psi
80 mil	30 psi	4 psi
100 mil	30 psi	4 psi

2.4 Spark testing shall be used for those extrusion seams that are unable to be tested by a vacuum box.

2.4.1 After welding, a spark detector, operating at approx. 20,000 volts (DC), is run along the weld. If any pinholes are present, an audible alarm will sound in the detector alerting the operator to the presence of a defective area. The spark test is typically used for extrusion welded seams where there is no hazard anticipated from a spark and where the configuration or location of the weld will not allow creating a vacuum seal for vacuum testing.

2.4.2 There is no immediate danger to human or animal life if a circuit is made through the spark detector.

3. Destructive Testing

3.1 Destructive Test Sampling shall conform to the following requirements:

3.1.1 As the welding of the geomembrane progresses, test samples shall be cut from the finished liner. The owner's representative or Comanco shall determine the location of the destructive samples, with no less than one sample taken for every 500 feet of seam. For larger projects destructive sample frequency may be increased as determined by project specification and/or at the discretion of the owner or engineer based on consistently passing test results. When reasonable, destructive samples should be taken at the beginning or end of a seam. This is to minimize seam footage in the finished lined area.

3.1.2 The destructive sample shall be a minimum of 12" wide by 36" long with the seam centered lengthwise. The sample shall be cut into three equal parts for distribution to Comanco for field testing, the CQA laboratory for testing (if required), and the owner for archiving. Field destructive test results shall be recorded on the appropriate form.

3.1.3 Cut samples at locations designated by the CQA consultant. Prior to the geomembrane being covered by the next layer of geosynthetics, required tests shall have passing results.

3.1.4 Repair all holes in the geomembrane resulting from destructive samples. The continuity of the repair shall be non-destructively tested.

3.1.5 Both destructive and trial weld samples shall be labeled with the relevant information.

3.16 When required, laboratory testing (performed by the CQA laboratory): Samples shall be tested in peel and shear (ASTM D4437).

3.1.7 All tests shall exhibit a film tearing bond type of separation. At least five coupons shall be tested by each test method. Four of five coupons shall meet the minimum requirements. For double wedge seam samples, both welds shall be tested in peel.

3.1.8 Failing samples shall be bounded by two locations where samples have passed destructive tests. For reconstructed seams exceeding 150 feet, a sample taken from within the reconstructed seam shall also pass destructive testing.

4. Defects and Repairs

4.1 The geomembrane shall be examined for defects, holes, blisters, undispersed raw materials, and any sign of contamination by foreign matter. The geomembrane surface shall be clean at the time of examination. Each suspect location shall be repaired and non-destructively tested. Geomembrane shall not be covered at locations that have not been repaired.

4.2 Damaged geomembrane shall be removed and replaced with acceptable geomembrane if damage cannot be satisfactorily repaired.

4.3 Any portion of the geomembrane exhibiting a flaw or failing a destructive or non-destructive test shall be repaired. Procedures available include:

4.3.1 Patching used to repair large holes (over 3/8" diameter) and tears (over 2" long), and contamination by foreign matter.

4.3.2 Abrading and re-welding: used to repair small seam sections (less than 12" long).

4.3.3 Spot welding: used to repair small tears (less than 2" long), pinholes, or other minor, localized flaws.

4.3.4 Heat tacking and extrusion welding the outer flap on wedge seams.

4.3.5 Capping used to repair large lengths of failed seams.

4.3.5 Removing the unsatisfactory material or seam and replacing with new material.

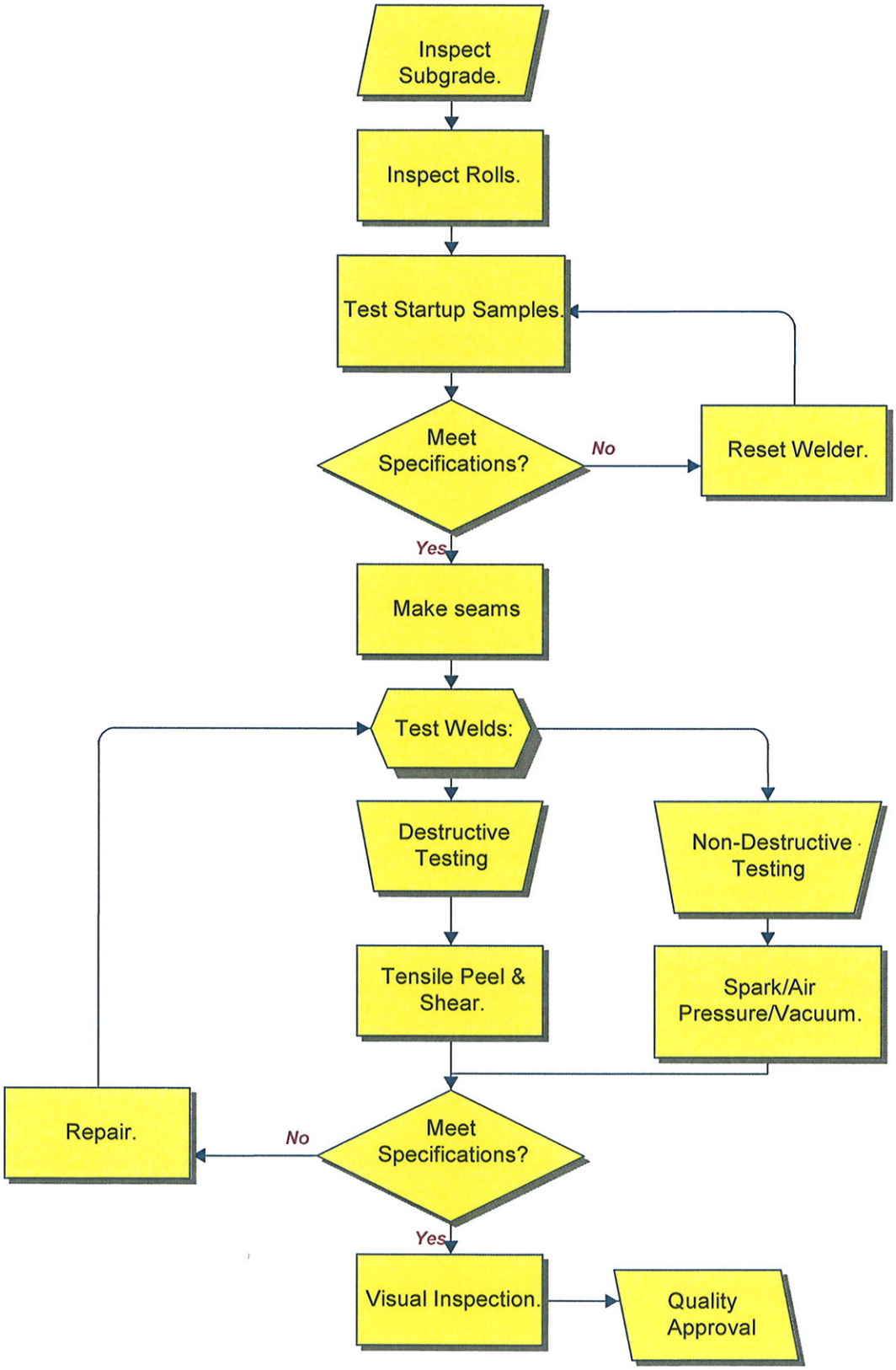
4.4 Patches or caps shall extend beyond the edge of the defect, and all corners of material to be patched and these shall be rounded to a radius".

4.5 Repairs shall be non-destructively tested using methods specified in this section. Repair parameters shall be documented on the appropriate form.

Geomembrane Acceptance

Owner will accept the geomembrane installation when the installation is complete and verification of the adequacy of all field seams and repairs, including associated testing, is complete. Acceptance can be done as lining progresses or when the impoundment is completed.

Geomembrane Welding & Installation



GEOSYNTEC CONSULTANTS

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SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 4	Revision No.: -	Contractor Submittal No.: 4
Specification Section(s): 02616	Date of Submittal Report: 7 August 2006	
Submittal Subject: PVC Pipe		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 13:41:49 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	4	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: PVC Pipe Properties

Specification Identifier: Section 02616, 1.04, A.

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:				
	[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
	[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
	[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 8/21/06 By:

PWEagle

Schedule 40 and 80 Pipe
IPS Size
Submittal and Data Sheet

August 2004

IPS Pressure-Rated PVC

Solvent Weld Schedule 40

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')	Water Pressure Rating (psi)	Length per Crate (feet)	Approximate Crate Weight (lbs)
½	0.840	0.60	0.109	16	600	10000	1640
¾	1.050	0.80	0.113	22	480	8100	1770
1	1.315	1.03	0.133	32	450	6300	2040
1¼	1.660	1.36	0.140	43	370	3920	1720
1½	1.900	1.59	0.145	52	330	3020	1580
2	2.375	2.04	0.154	69	280	2100	1480
2½	2.875	2.44	0.203	110	300	1460	1630
3	3.500	3.03	0.216	140	260	1500	2190
4	4.500	3.99	0.237	200	220	960	2000
5 *	5.563	5.01	0.258	290	190	460	1330
6 *	6.625	6.02	0.280	360	180	520	1900
8 *	8.625	7.93	0.322	570	160	300	1700
10 *	10.750	9.96	0.365	780	140	240	1870
12 *	12.750	11.88	0.406	1030	130	120	1240

Plain-end Schedule 80

Nominal Pipe Size (inches)	Average Outside Diameter (inches)	Approximate Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approximate Weight (lbs/100')	Water Pressure Rating (psi)	Length per Crate (feet)	Approximate Crate Weight (lbs)
½	0.840	0.52	0.147	21	650	10000	2110
¾	1.050	0.72	0.154	29	690	8100	2320
1	1.315	0.93	0.179	42	630	6300	2660
1¼	1.660	1.25	0.191	58	520	3920	2280
1½	1.900	1.47	0.200	70	470	3020	2130
2	2.375	1.90	0.218	97	400	2100	2050
2½	2.875	2.28	0.276	150	420	1460	2170
3	3.500	2.86	0.300	200	370	1500	2980
4	4.500	3.77	0.337	290	320	960	2790
5	5.563	4.76	0.375	400	290	760	3070
6	6.625	5.70	0.432	550	280	520	2880
8	8.625	7.55	0.500	840	250	300	2530
10	10.750	9.48	0.593	1250	230	240	3000
12	12.750	11.28	0.687	1720	230	120	2060

General Notes:

1. Certified to ANSI/NSF Standard 61 for potability.
2. Schedule 40 pipe is listed to the requirements of the Uniform Plumbing Code™ except for products marked with " * ".
3. Pipe material conforms to ASTM D 1784, cell class 12454.
4. Pipe conforms to ASTM D 1785.
5. Standard coloring of Schedule 40 pipe is white and Schedule 80 pipe is gray.
6. All pipe is produced in 20-foot lengths. 10-foot lengths may be available.
7. Inside diameters may vary due to allowable manufacturing tolerances.
8. Approximate weights are for estimating purposes only.
9. Water pressure ratings are for unthreaded pipe only. Do not thread Schedule 40 pipe.
10. Crate weights are for 20-foot lengths.
11. All orders are subject to final acceptance by PWEagle sales management.

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GEOSYNTEC CONSULTANTS

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SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 18 September 2007	**Job No.:** SC0-349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 4	Revision No.: 1	Contractor Submittal No.: 4
Specification Section(s): 02616, 1.04, A	Date of Submittal Report: 27 August 2007	
Submittal Subject: PVC Pipe Properties		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Meghan Lithgow	9/18/07	Gregory T. Corcoran, P.E	9/18/07

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 4

Submitted: August 27, 2007

No. of Copies: 2

	Original Submittal
	Supplement
X	Resubmittal
	Information Only

Submittal Description: PVC Pipe Properties

Specification Identifier: Section 02616, 1.04, A.

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received:

No. of Copies Returned:

Status:

	Code 1 - Approved
	Code 2 - Approved As Noted
	Code 3 - Approved As Noted, Confirm
	Code 4 - Approved As Noted, Resubmit
	Code 5 - Not Approved
	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SOLVENT WELD

J-M Manufacturing Company, Inc.

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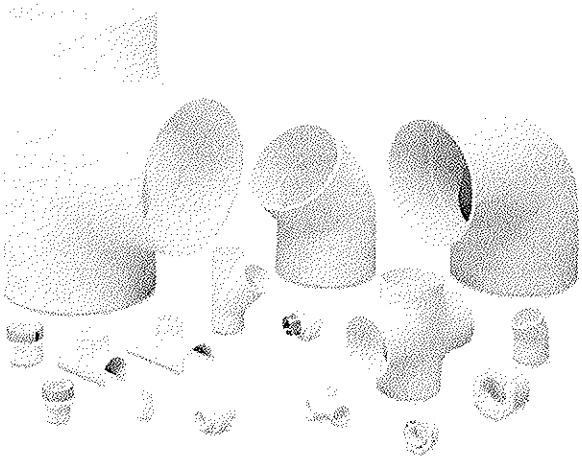
http:// www.jmm.com

TR-407A Revised October 2005

PVC SCHEDULE 40 FITTINGS

40-2-0402

Performance Engineered & Tested



SPEARS Schedule 40 PVC fitting designs combine years of proven experience with computer generated stress analysis to yield the optimum physical structure and performance for each fitting. Material reinforcement is uniformly placed in stress concentration areas for substantially improved pressure handling capability. Resulting products are subjected to numerous verification tests to assure the very best PVC fittings available.

Full 1/4" Through 12" Availability

Spears comprehensive line of PVC fittings offers a variety of injection molded configurations in Schedule 40 sizes 1/4" through 12" conforming to ASTM D 2466.

Exceptional Chemical & Corrosion Resistance

Unlike metal, PVC fittings never rust, scale, or pit, and will provide many years of maintenance-free service and extended system life.

High Temperature Ratings

PVC thermoplastic can handle fluids at service temperatures up to 140° F (60°C), allowing a wide range of process applications, including corrosive fluids.

Lower Installation Costs

Substantially lower material costs than steel alloys or lined steel, combined with lighter weight and ease of installation, can reduce installation costs by as much as 60% over conventional metal systems.

Higher Flow Capacity

Smooth interior walls result in lower pressure loss and higher volume than conventional metal fittings.

Additional Fabricated Configurations through 36"

Extra large, hard-to-find, and custom configurations are fabricated from NSF Certified pipe. Fittings are engineered and tested to provide full pressure handling capabilities according to Spears specifications.

PVC Valves

SPEARS PVC Valve products are available for total system compatibility and uniformity; see SPEARS' THERMOPLASTIC VALVES PRODUCT GUIDE & ENGINEERING SPECIFICATIONS (V-4).

Advanced Design Specialty Fittings

Spears wide range of innovative, improved products include numerous metal-to-plastic transition fittings and unions with Spears' patented stainless steel reinforced (SR) plastic threads.

MADE IN THE U.S.A. WITH PRIDE

LPCB LOSS PREVENTION CERTIFICATION BOARD — NATIONAL ACCREDITATION OF CERTIFICATION BODIES

Quality Systems Certificate No. 293
Corporate Facilities, Sylmar, CA
Assessed to ISO 9001

Sample Engineering Specifications

All PVC Schedule 40 fittings shall be produced by Spears Manufacturing Company from PVC Type 1 cell classification 12454, conforming to ASTM D 1784. All injection molded PVC Schedule 40 fittings shall be Certified for potable water service by NSF International and manufactured in strict compliance to ASTM D 2466. All fabricated fittings shall be produced in accordance with Spears General Specifications for Fabricated Fittings.

PROGRESSIVE PRODUCTS FROM SPEARS INNOVATION & TECHNOLOGY

Visit our web site: www.spearsmfg.com

PVC Thermoplastic Pipe Temperature Pressure De-Rating

System Operating Temperature °F (°C)	73 (23)	80 (27)	90 (32)	100 (38)	110 (43)	120 (49)	130 (54)	140 (60)
PVC	100%	90%	75%	62%	50%	40%	30%	22%

NOTE: Valves, Unions and Specialty Products have different elevated temperature ratings than pipe.

PVC Basic Physical Properties

Properties	ASTM Test Method	PVC
Mechanical Properties, 73°F		
Specific Gravity, g/cm³	D 792	1.41
Tensile Strength, psi	D 638	7,200
Modulus of Elasticity, psi	D 638	440,000
Compressive Strength, psi	D 695	9,000
Flexural Strength, psi	D 790	13,200
Izod Impact, notched, ft-lb/in	D 256	.65
Thermal Properties		
Heat Deflection Temperature, °F at 66 psi	D 648	165
Thermal Conductivity, BTU/hr/sq ft/°F/in	C 177	1.2
Coefficient of Linear Expansion, in/in/°F	D 696	3.1 x 10^{-5}
Flammability		
Limiting Oxygen Index, %	D 2863	43
UL 94 rating	94V-0	
Other Properties		
Water Absorption, % 24 hr.	D 570	.05
Industry Standard Color	White / Dark Gray	
ASTM Cell Classification	D 1784	12454
NSF Portable Water Approved	Yes	

PVC Chemical Resistance

PVC is generally inert to most mineral acids, bases, salts and paraffinic hydrocarbon solutions. For more information on PVC chemical resistance refer to the Chemical Resistance of Rigid Vinyls Based on Immersion Test, published by the GEON® company.

NOT FOR USE WITH COMPRESSED AIR OR GASES

Spears Manufacturing Company DOES NOT RECOMMEND the use of thermoplastic piping products for systems to transport or store compressed air or gases, or the testing of thermoplastic piping systems with compressed air or gases in above and below ground locations. The use of our product in compressed air or gas systems automatically voids any warranty for such products, and its use against our recommendation is entirely the responsibility and liability of the installer.

WARNING: DO NOT USE COMPRESSED AIR OR GAS TO TEST ANY PVC OR CPVC THERMOPLASTIC PIPING PRODUCT OR SYSTEM, AND DO NOT USE DEVICES PROPELLED BY COMPRESSED AIR OR GAS TO CLEAR SYSTEMS. THESE PRACTICES MAY RESULT IN EXPLOSIVE FRAGMENTATION OF SYSTEM PIPING COMPONENTS CAUSING SERIOUS OR FATAL BODILY INJURY.

SPEARS® MANUFACTURING COMPANY

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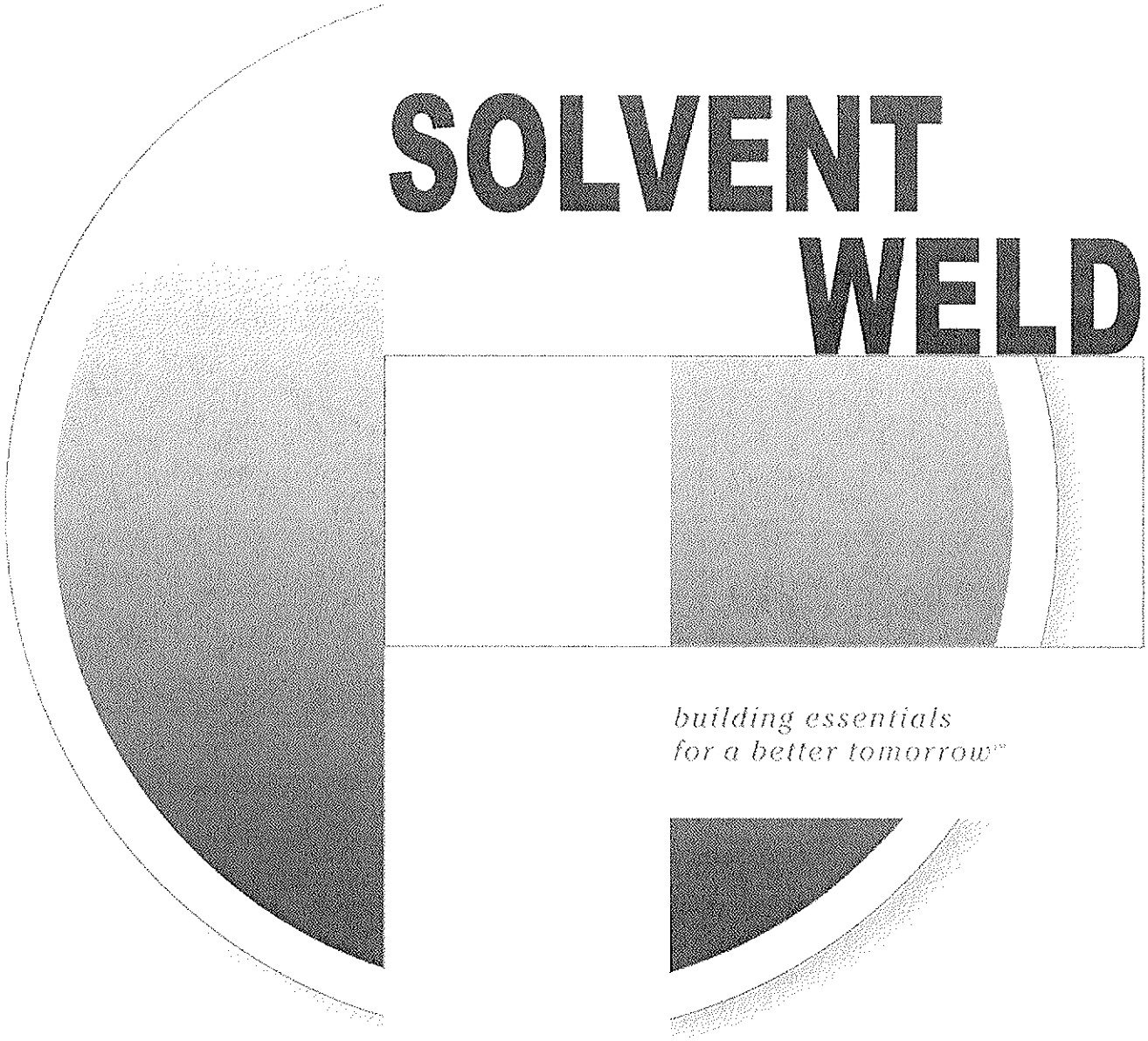
SOLVENT WELD



building essentials
for a better tomorrow™

JMM™

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PVC: Meets ASTM D 2949, D 1785, D 2665, D 2241, D 3034, D 2729, F 480 and F 891
ABS: Meets ASTM D 2661 and F 628

SOLVENT WELD

PVC: Schedule 30, 40, 80 and Cellular Core Schedule 40
Pressure Rated 100, 125, 160, 200, 250 and 315 psi
Sewer and Drain Pipe, Perforated Pipe
Well Casing
ABS Schedule 40 DWV, Schedule 40 Cellular Core

Product Description : :

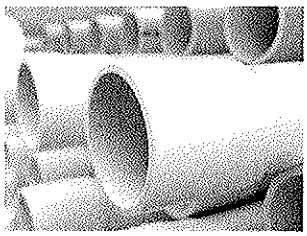
For Use In Plumbing, Drainage Waste And Irrigation

::DESCRIPTION

J-M Manufacturing (JMM) covers the following Solvent Weld pressure and non-pressure products in this catalog: PVC Schedule 40 and 80 (ASTM D 1785 and/or ASTM D 2665), Cellular Core PVC Sch 40 (ASTM F 891), PVC Schedule 30 (ASTM D 2949, ASTM D 1784), PVC Pressure Rated (ASTM D 2241), PVC Well Casing (ASTM D 1785, ASTM F 480, and/or ASTM D 2241), PVC Sewer Pipe (ASTM D 3034), PVC Perforated Drain Pipe (ASTM D 2729), ABS Sch 40 (ASTM D 2661), and Cellular Core ABS Sch 40 (ASTM F 628).

::LONG LAYING LENGTHS

All JMM Solvent Weld pipe products are offered in 20 and/or 10 foot standard laying lengths. This means that more ground can be covered during installation while eliminating the cost of unnecessary joints.



::PURPLE RECLAIM

JMM also manufactures this pipe in purple, specifically for reclaimed water systems. This pipe is made and tested to the same requirements as our standard products. The only difference is that the pigment used is purple. These products will not be marked with the UL or NSF listing marks. Additionally, the purple pipe will be marked : " Reclaimed Water... Do Not Drink."

::APPLICATIONS

Solvent weld joints are designed to provide a rigid (or restrained) joint connection. These products are engineered for use in a variety of applications from potable water distribution to sewer and drainage systems. Additionally, the schedule rated products are specifically engineered for use in partial support systems above ground.

::QUALITY CONTROL

This pipe is tested in accordance with the provisions of the appropriate listed standard(s) and subject to inspection by our quality control inspectors throughout every step of the manufacturing process.

JMM's quality control system is ISO 9001:2000 registered. Copies of the registration certificates are available on our website at http://www.jmm.com.

::CORROSION RESISTANCE

Solvent Weld PVC is unaffected by electrolytic or galvanic corrosion, or any known corrosive soil or water condition. You don't have to worry about tuberculation, or the need for costly lining, wrapping, coating, or cathodic protection.

::FLOW CAPACITY

This PVC water pipe has a smooth interior that stays smooth over its long service life with no loss in carrying capacity. It's coefficient of flow is C=150 (Hazen & Williams) the best available in common use water systems. This capacity often allows savings in pumping costs as well as savings on the size of pipe required.

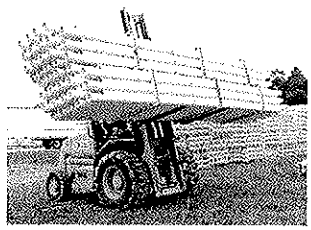
::DESIGNED FOR INSTALLED-COST SAVINGS

::SAVE IN HANDLING COSTS

Most sizes can be handled manually, so there is no need for costly installation equipment. Use the backhoe for excavating and backfilling only. Dig more trench, lay pipe faster, save more in costs per foot installed.

::LIGHT WEIGHT

A 20 foot length of 6" Schedule 40 PVC water pipe weighs approximately 72 pounds. That makes it easy to load, easy to transport, and easy to handle. Installers prefer it because it goes into the ground quickly, thus saving on installation costs.

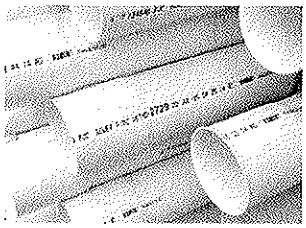


::SERVICE LIFE

Since PVC does not corrode and is resistant to most chemicals, the pipe does not lose strength due to either potable water corrosion or external galvanic soil conditions. The design of the pressure rated pipe products allows for a 2 to 1 long-term safety factor at the marked capacity of the pipe.

::FIELD CUTTING AND BEVELING

You can cut Solvent Weld PVC pipe with a power saw or an ordinary handsaw. This eliminates the need to invest in costly cutting equipment. The pipe can also be beveled without the use of any expensive or complicated machinery.



::INSTALLATION

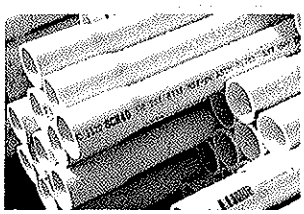
This product should be installed in accordance with JMM Publication TR-4078, "Solvent Weld Pipe Installation Guide" and TR-410A, "Pressure Pipe Tapping Guide."

::I.P.S. AND GRAVITY SEWER O.D.'S

Available in .5" through 16" diameter sizes, this pipe can be connected directly to most

Product Description : :
(Continued)

plumbing and I.P.S. fixtures without complicated procedures or adapters. In addition, it can be connected into C.I.O.D. fittings with adapters and/or transition gaskets.



::SOLVENT WELD JOINTS
Solvent weld joints provide a rigid joint connection for use in applications where restraint of the joint may be needed. This allows the whole run of pipe to act as one piece of pipe, regardless of the number of joints. This is accomplished by fusing material from both the spigot end and the bell end (or coupling) together.

Once this is properly done and the joint has cured, the result is a "zero-leak" joint that is structurally sound.

Solvent weld joints are most often used in applications above ground and/or indoors. They may be used, however, in underground applications. During installation, it is important to remember that the finished product will function as a single span of pipe. Therefore, allowances in the form of "snaking," or offsets, should be made to accommodate thermal expansion of the material and/or surges.

::ACCESSORIES
JMM's Solvent Weld PVC pipe is compatible with all the items required for smooth installation of plumbing, vent, and drainage pipe systems.

Surge Design : :
Surge Pressures in Various Pressure Pipe

It is important to note that for the same conditions of interrupted flow, the surge pressures generated in pipe with high tensile moduli will be greater than the surges in low moduli (PVC) pipe of similar dimensions.

As the modulus of tensile elasticity for a piping material increases, the resultant pressure surges, or "water hammer", caused by a change in flow velocity increases. For example, an instantaneous 2 fps (0.6 mps) flow velocity change in an 8" water pipe will create surge pressures, as shown in Table 1, for different pipe materials. For all system designs, surge pressures should be examined with the pipe material in use.

::TABLE1
PRESSURE SURGES IN 8 IN. WATER MAIN

(In Response to 2 fps (0.6 mps) Instantaneous Flow Velocity Change)

Pipe Product	Pressure Surge, psi (kPa)
Class 50 DI Pipe	100.0 (689)
Class 150 AC Pipe	88.7 (611)
Sch. 40 PVC Pipe	29.2 (202)

Pressure surges in PVC pipe (12454) of different schedules in response to a 1fps (0.3 mps) instantaneous flow velocity change are shown in Table 2.

::TABLE2
DESIGN TABLE FOR PVC PIPE-PRESSURE SURGE VS. SIZE

(In Response to 1 fps (0.3 mps) Instantaneous Flow Velocity Change)

Size (in)	Pressure Surge (psi) Sch. 40	Sch. 80
0.5	27.9	32.9
0.75	25.3	29.9
1	24.4	28.7
1.5	21.1	25.0
2	19.3	23.2
3	18.9	22.4
4	17.8	20.9
6	15.5	19.4
8	14.6	18.3
10	13.9	17.3
12	13.4	17.6

* For surge generated in Pressure Rated (SDR Series) products, please refer to JMM Publication IR-405A, "I.P.S. Pressure Rated Pipe."

Short Form Specification : :

::SCOPE

This specification designates general requirements for 0.5" through 16" unplasticized polyvinyl chloride (PVC) and 1.5" through 6" ABS Solvent Weld pipe for the conveyance of water and other fluids in pressure and non-pressure applications. Please contact JMM Sales for availability.

::MATERIALS

solid wall PVC pipe shall be made from quali-

PVC resin, compounded to provide physical and mechanical properties that equal or exceed cell class 12454 as defined in ASTM D 1784. PVC cellular core pipe material shall meet cell classification 11432 per ASTM D 4396. All pipe constructed of ABS materials shall be made from quality ABS resin, compounded to provide physical and mechanical properties that equal or exceed cell class 42222 as defined in ASTM D 3965.

::HYDROSTATIC TESTING

Random samples of pressure rated pipe at prescribed intervals are tested in compliance with the applicable specifications for hydrostatic capability in the quick burst test.

::STANDARD LAYING LENGTHS

Standard laying lengths are 10 or 20 feet for all sizes depending on the product and shipping location. At least 85% of the total footage of pipe of any class and size shall be furnished in standard lengths. The remaining 15% can be furnished in random lengths.

::PIPE

All pipe shall be suitable for use as pressure conduit and/or DWV conduit. Provisions must be made for expansion and contraction of the pipe structure. The bell section shall be designed to be at least as hydrostatically strong as the pipe wall and meet the requirements of the appropriate specification for the pipe. Sizes and dimensions shall be as shown in this specification.

For product installation notes and procedures, please contact JMM at (800) 621-4404. Pipe installation and usage shall be in compliance with JMM Publication IR-407B, "Solvent Weld Pipe Installation Guide" and IR-410A, "Pressure Pipe Tapping Guide."

::QUICK BURST TEST

Randomly selected samples of pressure rated pipe is tested in accordance with ASTM D 1599 and shall withstand the prescribed pressures without failure, when applied for 60-70 seconds.

::OTHER PROPERTIES

Pipe stiffness and impact resistance of these products are measured in accordance with the applicable standards. For specific values, please contact JMM or consult the latest edition of the ASTM product standard.

::TYPICAL PHYSICAL AND CHEMICAL PROPERTIES AND CAPACITIES

Property	Solvent Weld PVC Pipe	ASTM Test Method
ISO Hoop Stress at 73°F		
Short Term Bursting Strength (psi)	6400*	D 1599
1,000 Hour Strength (psi)	4000*	D 1598
Working Pressure Rating		
73°F (% of rating at 73°F)	100%*	
80°F (% of rating at 73°F)	88%*	
100°F (% of rating at 73°F)	60%*	
Chemical Resistance at73°F		
Acids	Excellent	
Salts - Bases	Excellent	
Aliphatic Hydrocarbons (including crude oil)	Good	
Thermal Expansion (in/100 ft/50°F change)	3"	
Fire Resistance	Self Extinguishing	
Flame Spread	10	E 162
Smoke Development	335	E 84
Coefficient of Flow Hagen & Williams	C = 150	
Mannings N Value	N= 0.009	

* Pressure Rated products only

Dimensions and Weights : :

PVC SOVLENT WELD - (SCHEDULE SERIES) : :

: : JMM PVC SCHEDULE 40/DWV PIPE

Dual marking for both Pressure and Drain, Waste, Vent (DWV) Applications

Specifications : ASTM D 1785 & ASTM D 2665 : :

Listed : NSF-PW NSF-DWV Standard 61, Standard 14, IAPMO

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Water Pres. Rating at 23°C(73°F)	Approx. Weight (lbs/ft)
1/2	0.840	0.609	0.109	600	0.164
3/4	1.050	0.810	0.113	480	0.218
1	1.315	1.033	0.133	450	0.304
1-1/4	1.660	1.363	0.140	370	0.439
1-1/2	1.900	1.593	0.145	330	0.525
2	2.375	2.049	0.154	280	0.705
2-1/2	2.875	2.445	0.203	300	1.118
3	3.500	3.042	0.216	260	1.463
4	4.500	3.998	0.237	220	2.083
6	6.625	6.031	0.280	180	3.663
8	8.625	7.942	0.322	140	5.512
10	10.750	9.976	0.365	140	7.815
12	12.750	11.888	0.406	130	10.336
14	14.000	13.073	0.437	130	12.229
16	16.000	14.940	0.500	130	15.980

::Standard Color: White ::Standard Length: 10' and 20' ::Plain End and Belled End

*1/2"-1" only marking with NSF-PW

: : JMM PVC SCHEDULE 40/DWV CELLULAR CORE PIPE

Specifications : ASTM F 891 : :

Listed : NSF-DWV Standard 14

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Approx. Weight (lbs/ft)
1-1/2	1.900	1.593	0.145	0.383
2	2.375	2.049	0.154	0.500
3	3.500	3.042	0.216	1.050
4	4.500	3.998	0.237	1.450
6	6.625	6.031	0.280	2.450
8	8.625	7.942	0.322	--
10	10.750	9.976	0.365	--
12	12.750	11.889	0.406	--

::Standard Color: White ::Standard Length: 10' and 20' ::Plain End and Belled End

* Prior to ordering or specifying, please consult JMM for product and/or listing availability.

I.D. : Inside Diameter
O.D. : Ochide Diameter
T. : Wall Thickness

: : JMM PVC SCHEDULE 80 PIPE

Specifications : ASTM D 1785 : :

Listed : NSF-PW Standard 61, Standard 14

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Water Pres. Rating at 23°C(73°F)	Approx. Weight (lbs/ft)
1/2	0.840	0.598	0.147	850	0.210
3/4	1.050	0.724	0.154	670	0.285
1	1.315	0.935	0.179	630	0.419
1-1/4	1.660	1.255	0.191	520	0.579
1-1/2	1.900	1.476	0.200	470	0.701
2	2.375	1.913	0.218	400	0.969
2-1/2	2.875	2.290	0.276	420	1.479
3	3.500	2.864	0.300	370	1.979
4	4.500	3.786	0.337	320	2.892
6	6.625	5.709	0.432	280	5.516
8	8.625	7.565	0.500	250	8.336
10‡	10.750	9.293	0.593	230	12.376
12‡	12.750	11.294	0.687	230	17.027

::Standard Color: Dark Gray ::Standard Lengths: 20' (cut) ::Plain End Only

‡Available in Western Region Only

: : JMM PVC SCHEDULE 30 PIPE

DRAIN, WASTE, VENT (DWV)

Specifications : ASTM D 2949 : :

Listed : NSF - DWV Standard 61, Standard 14

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Water Pres. Rating at 23°C(73°F)	Approx. Weight (lbs/ft)
3	3.350	2.980	0.125	None	0.600

::Cell Class 12454

* Prior to ordering or specifying, please consult JMM for product and/or listing availability.

I.D. : Inside Diameter
O.D. : Ochide Diameter
T. : Wall Thickness

Dimensions and Weights : :

(Continued)

PVC SOVLENT WELD - (SDR SERIES) : :

: : JMM PVC SOLVENT WELD PRESSURE RATED PIPE

Specifications : ASTM D 2241 : :

(listed : NSF - DWV Standard 61, Standard 14)

Nom. Pipe Size (in)	O.D. (in)	100 psi/ SDR 41 † Min. T. (in)	125 psi/ SDR 32.5 † Min. T. (in)	160 psi/ SDR 26 Min. T. (in)	200 psi/ SDR 21 Min. T. (in)	250 psi/ SDR 17 Min. T. (in)	315 psi/ SDR 13.5 Min. T. (in)
1/2	0.840	--	--	--	--	--	0.062
3/4	1.050	--	--	--	--	0.062	0.078
1	1.315	--	--	--	0.063	0.077	0.097
1-1/4	1.660	--	--	0.064	0.079	0.098	0.123
1-1/2	1.900	--	--	0.073	0.090	0.112	0.141
2	2.375	--	0.072	0.091	0.113	0.140	0.176
2-1/2	2.875	--	0.088	0.110	0.137	0.169	0.213
3	3.500	0.085	0.108	0.135	0.167	0.206	0.259
3-1/2	4.000	0.098	0.123	0.154	0.190	0.235	0.296
4	4.500	0.110	0.138	0.173	0.214	0.265	0.333
5	5.563	0.136	0.171	0.214	0.265	0.327	0.412
6	6.625	0.162	0.204	0.255	0.316	0.390	0.491
8	8.625	0.210	0.265	0.332	0.410	0.506	--
10	10.750	0.262	0.331	0.413	0.511	0.632	--
12	12.750	0.311	0.392	0.490	0.606	0.750	--

::Standard Color: White ::Standard Length: 20' Overall ::Belled End Only

† Available in Western Region Only.

* Prior to ordering or specifying, please consult JMM for product and/or sizing availability.

I.D. : Inside Diameter
O.D. : Outside Diameter
T. : Wall Thickness

PVC SOVLENT WELD - (SDR DRAINAGE SERIES) : :

: : JMM PVC 3034 SOLVENT WELD SEWER PIPE

JMM SOLVENT WELD SEWER PIPE CONFORMS TO SPECIFICATIONS AND CELL CLASS AS DEFINED IN ASTM D 3034

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Approx. Weight (lbs/ft)
4"	4.215	3.961	0.120	1.022
4" x 10" Perf	4.215	3.961	0.120	1.022
6"	6.275	5.893	0.180	2.285
6" x 10" Perf	6.275	5.893	0.180	2.285

::Standard Color: Green ::Standard Length: 10' or 20' Overall ::Belled End Only
::Standard perforations for pipe are two rows of holes 1/2" in diameter on 5" centers and 120° apart
Perforated pipe does not have ASTM designation on end bell

When using JMM PVC 3034 Solvent Weld Sewer Pipe for septic tank fields, please install in accordance with previously listed literature, ASTM D 2321, and JMM publication TR-4058, "Gravity Sewer Installation Guide."

: : JMM PVC 2729 SOLVENT WELD DRAIN PIPE

JMM SOLVENT WELD DRAIN PIPE CONFORMS TO SPECIFICATIONS AND CELL CLASS AS DEFINED IN ASTM D 2729

(listed : IAPMO)

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Approx. Weight (lbs/ft)
3" Solid	3.250	3.102	0.070	0.465
3" Perf	3.250	3.102	0.070	0.465
4" Solid	4.215	4.056	0.075	0.648
4" Perf	4.215	4.056	0.075	0.648
6" Solid	6.275	6.063	0.100	1.390
6" Perf	6.275	6.063	0.100	1.390

::Standard Color: White ::Standard Length: 10' Overall ::Belled End Only
::Standard perforations for pipe are two rows of holes 1/2" in diameter on 5" centers and 120° angle apart
Many perforations sizes may be available

When using JMM PVC 2729 Solvent Weld drain Pipe for septic tank fields, please install in accordance with previously listed literature, ASTM F 481, and JMM publication TR-4058, "Gravity Sewer Installation Guide."

* Prior to ordering or specifying, please consult JMM for product and/or sizing availability.

I.D. : Inside Diameter
O.D. : Outside Diameter
T. : Wall Thickness

Dimensions and Weights : :

(Continued)

PVC SOVLENT WELD - (CASING SERIES) : :

: : JMM PVC WELL CASING PIPE

Specifications : ASTM D 1785, ASTM F 480 : :

Listed : NSF Standard 61, Standard 14

Nom. Pipe Size (in)	O.D. (in)	Max. I.D. (in)	Min. I.D. (in)	Min. T. (in)	Max. T. (in)	Min. C (ref)
3	3.375	3.067	3.027	0.154	0.174	4.500
4	4.500	4.036	3.970	0.237	0.265	7.000
4.5	4.950	4.464	4.390	0.248	0.309	7.000
5	5.563	5.047	4.985	0.266	0.289	7.000
6	6.625	6.065	5.997	0.280	0.314	7.000
8	8.625	7.981	7.905	0.322	0.361	7.000

Specifications : ASTM D 2241, ASTM F 480 : :

Listed : NSF Standard 61, Standard 14

Nom. Pipe Size (in)	O.D. (in)	Max. I.D. (in)	Min. I.D. (in)	Min. T. (in)	Max. T. (in)	Min. C (ref)
4	4.500	4.204	4.184	0.138	0.158	7.000
5	5.563	5.221	5.179	0.171	0.192	7.000
6	6.625	6.217	6.169	0.204	0.228	7.000
8	8.625	8.098	8.031	0.265	0.297	7.000

Listed : NSF Standard 61, Standard 14

Nom. Pipe Size (in)	O.D. (in)	Max. I.D. (in)	Min. I.D. (in)	Min. T. (in)	Max. T. (in)	Min. C (ref)
4	4.500	4.154	4.134	0.173	0.193	7.000
4.5	4.950	4.570	4.524	0.198	0.213	7.000
5	5.563	5.135	5.081	0.214	0.231	7.000
6	6.625	6.115	6.055	0.255	0.286	7.000
8	8.625	7.961	7.881	0.332	0.372	7.000

Listed : NSF Standard 61, Standard 14

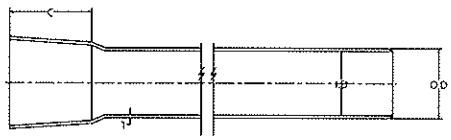
Nom. Pipe Size (in)	O.D. (in)	Max. I.D. (in)	Min. I.D. (in)	Min. T. (in)	Max. T. (in)	Min. C (ref)
4	4.500	4.075	4.000	0.214	0.240	7.000
4.5	4.950	4.502	4.448	0.224	0.251	7.000
5	5.563	5.083	4.969	0.265	0.297	7.000
6	6.625	5.993	5.917	0.316	0.354	7.000
8	8.625	7.809	7.707	0.408	0.459	7.000

Listed : NSF Standard 61, Standard 14

Nom. Pipe Size (in)	O.D. (in)	Max. I.D. (in)	Min. I.D. (in)	Min. T. (in)	Max. T. (in)	Min. C (ref)
4	4.500	3.970	3.906	0.265	0.297	7.000
4.5	4.950	4.368	4.298	0.291	0.326	7.000
5	5.563	4.909	4.831	0.327	0.366	7.000
6	6.625	5.845	5.751	0.390	0.437	7.000
8	8.625	7.609	7.487	0.508	0.568	7.000

* Prior to ordering or specifying, please consult JMM for product and/or sizing availability.

I.D. : Inside Diameter
O.D. : Outside Diameter
T. : Wall Thickness



* Nominal 20 foot laying length
All lengths are 20' plus depths of bell.

Dimensions and Weights : :
(Continued)

PVC SOVLENT WELD - (SCHEDULE SERIES) : :

: : JMM ABS SCHEDULE 40/DWV PIPE

Specifications : ASTM D 2661 : :

Listed : NSF - DWV Standard 61, Standard 14, IAPMO

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Approx. Weight (lbs/ft)
1-1/2	1.900	1.593	0.145	0.383
2	2.375	2.049	0.154	0.515
3	3.500	3.042	0.216	1.069
4	4.500	3.998	0.237	1.503
6	6.614	6.031	0.280	..

: : JMM ABS SCHEDULE 40/DWV CELLULAR CORE PIPE

Specifications : ASTM F 628 : :

Listed : NSF - DWV Standard 61, Standard 14, IAPMO

Nom.Pipe Size (in)	O.D. (in)	Nom. I.D. (in)	Min. T. (in)	Approx. Weight (lbs/ft)
1-1/2	1.900	1.593	0.145	0.277
2	2.375	2.049	0.154	0.363
3	3.500	3.042	0.216	0.728
4	4.500	3.998	0.237	1.022
6	6.614	6.031	0.280	1.768

Available in 5', 10' and 20' lengths.

* Prior to ordering or specifying, please consult JMM for product and/or stock availability.

I.D. : Inside Diameter
O.D. : Outside Diameter
T. : Wall Thickness

Flow/ Friction Charts : :

: : FLOW/FRICTION LOSS, SOLVENT WELD PVC PIPE

Schedule 40 : :

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
1/2	1	0.90	2.08	1.13	2	30	0.79	1.82	2.93
	2	1.80	4.16	2.26		35	0.93	2.15	3.41
	5	10.15	23.44	5.61		40	1.19	2.75	3.90
	7	18.64	43.06	7.90		45	1.49	3.43	4.39
	10	27.51	63.52	11.28		50	1.80	4.16	4.88
3/4	1	0.22	0.51	0.63		60	2.53	5.84	5.85
	2	0.44	1.02	1.26		70	3.36	7.76	6.83
	5	2.48	5.73	3.16		75	3.82	8.82	7.32
	7	4.56	10.52	4.43		80	4.30	9.94	7.80
	10	8.68	20.04	6.32		90	5.36	12.37	8.78
	15	18.39	42.46	9.48		100	6.51	15.03	9.75
	20	31.30	72.26	12.65	2-1/2	1	..	..	..
1	1	..	..	..		2	..	..	..
	2	0.24	0.55	0.77		5	0.016	0.038	0.32
	5	0.75	1.72	1.93		7	0.003	0.051	0.49
	7	1.37	3.17	2.72		10	0.039	0.09	0.68
	10	2.61	6.02	3.86		15	0.082	0.19	1.03
	15	5.53	12.77	5.79		20	0.14	0.32	1.37
	20	9.42	21.75	7.72		25	0.21	0.49	1.71
	25	14.22	32.83	9.65		30	0.29	0.68	2.05
	30	19.95	46.06	11.58		35	0.39	0.91	2.39
1-1/4	1	..	..	..		40	0.50	1.16	2.73
	2	0.06	0.14	0.64		45	0.60	1.44	3.08
	5	0.19	0.44	1.11		50	0.76	1.75	3.42
	7	0.35	0.81	1.55		60	1.07	2.46	4.10
	10	0.67	1.55	2.21		70	1.42	3.27	4.79
	15	1.42	3.28	3.31		75	1.61	3.71	5.13
	20	2.42	5.59	4.42		80	1.81	4.19	5.47
	25	3.66	8.45	5.52		90	2.26	5.21	6.15
	30	5.13	11.85	6.63		100	2.74	6.33	6.84
	35	6.82	15.76	7.73		125	4.15	9.58	8.55
	40	8.74	20.16	8.84		150	5.81	13.41	10.26
	45	10.87	25.10	9.94	3	1	..	..	..
	50	13.27	30.51	11.05		2	..	..	..
1-1/2	1	..	..	..		5	0.007	0.015	0.22
	2	0.05	0.07	0.33		7	0.009	0.021	0.31
	5	0.09	0.22	0.81		10	0.013	0.03	0.44
	7	0.17	0.38	1.13		15	0.030	0.07	0.66
	10	0.31	0.72	1.62		20	0.048	0.11	0.88
	15	0.66	1.53	2.42		25	0.074	0.17	1.10
	20	1.13	2.61	3.23		30	0.10	0.24	1.33
	25	1.71	3.95	4.04		35	0.13	0.31	1.55
	30	2.39	5.53	4.85		40	0.17	0.40	1.77
	35	3.19	7.36	5.66		45	0.22	0.50	1.99
	40	4.08	9.43	6.47		50	0.26	0.60	2.21
	45	5.08	11.73	7.27		60	0.37	0.85	2.65
	50	6.17	14.25	8.08		70	0.49	1.13	3.09
	60	8.65	19.98	9.70		75	0.56	1.29	3.31
2	1	..	..	..		80	0.63	1.46	3.53
	2	..	..	..		90	0.78	1.80	3.98
	5	0.029	0.066	0.49		100	0.94	2.18	4.42
	7	0.048	0.11	0.69		125	1.43	3.31	5.52
	10	0.091	0.21	0.98		150	2.00	4.65	6.63
	15	0.19	0.45	1.46		175	2.67	6.16	7.73
	20	0.33	0.76	1.95		200	3.41	7.88	8.83
	25	0.50	1.15	2.44		250	5.17	11.93	11.04

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance

Flow/ Friction Charts : :

(Continued)

Schedule 40 : : *(Continued)*

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
4	20	0.013	0.03	0.51	6	175	0.026	0.06	1.97
	25	0.017	0.04	0.64		200	0.12	0.28	2.26
	30	0.026	0.06	0.77		250	0.19	0.43	2.81
	35	0.035	0.08	0.89		300	0.26	0.60	3.37
	40	0.048	0.11	1.02		350	0.36	0.79	3.94
	45	0.056	0.13	1.15		400	0.46	1.01	4.49
	50	0.069	0.16	1.28		450	0.55	1.26	5.06
	60	0.095	0.22	1.53		500	0.66	1.53	5.62
	70	0.13	0.30	1.79		750	1.41	3.25	8.43
	75	0.15	0.34	1.92		1000	2.40	5.54	11.24
	80	0.16	0.38	2.05	8	100	0.012	0.03	0.45
	90	0.20	0.47	2.30		125	0.015	0.035	0.81
	100	0.25	0.58	2.56		150	0.017	0.04	0.97
	125	0.38	0.88	3.20		175	0.024	0.055	1.14
	150	0.53	1.22	3.84		200	0.030	0.07	1.30
	175	0.71	1.63	4.48		250	0.048	0.11	1.63
	200	0.90	2.08	5.11		300	0.069	0.16	1.94
	250	1.36	3.15	6.40		350	0.091	0.21	2.27
	300	1.91	4.41	7.67		400	0.12	0.27	2.59
	350	2.55	5.87	8.95		450	0.14	0.33	2.92
	400	3.26	7.52	10.23		500	0.17	0.40	3.24
5	30	0.009	0.02	0.49		750	0.37	0.85	4.86
	35	0.013	0.03	0.57		1000	0.63	1.45	6.48
	40	0.013	0.03	0.65		1250	0.95	2.20	8.11
	45	0.017	0.04	0.73		1500	1.32	3.07	9.72
	50	0.022	0.05	0.81	10	200	0.012	0.027	0.82
	60	0.030	0.07	0.97		250	0.018	0.035	1.03
	70	0.043	0.10	1.14		300	0.025	0.05	1.23
	75	0.048	0.11	1.22		350	0.028	0.065	1.44
	80	0.056	0.13	1.30		400	0.039	0.09	1.64
	90	0.069	0.16	1.46		450	0.048	0.11	1.85
	100	0.082	0.19	1.62		500	0.056	0.13	2.05
	125	0.125	0.29	2.03		750	0.12	0.28	3.08
	150	0.17	0.40	2.44		1000	0.21	0.48	4.11
	175	0.230	0.54	2.84		1250	0.32	0.73	5.14
	200	0.29	0.67	3.25		1500	0.44	1.01	6.16
	250	0.45	1.05	4.06		2000	0.74	1.72	8.21
	300	0.63	1.46	4.87		2500	1.13	2.61	10.27
	350	0.85	1.95	5.69	12	350	0.012	0.027	1.01
	400	1.08	2.49	6.50		400	0.012	0.04	1.15
	450	1.34	3.09	7.31		450	0.022	0.05	1.30
	500	1.63	3.75	8.12		500	0.026	0.06	1.45
6	30	0.009	0.02	0.56		750	0.057	0.13	2.17
	40	0.013	0.03	0.67		1000	0.087	0.20	2.89
	70	0.017	0.04	0.79		1250	0.13	0.31	3.62
	75	0.022	0.05	0.85		1500	0.19	0.43	4.34
	80	0.022	0.05	0.90		2000	0.32	0.73	5.78
	90	0.026	0.06	1.01		2500	0.49	1.11	7.23
	100	0.030	0.08	1.12		3000	0.67	1.55	8.68
	125	0.052	0.12	1.41		3500	0.90	2.07	10.12
	150	0.069	0.16	1.69		4000	1.15	2.66	11.57

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance.

Schedule 80 : :

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
1/2	1	1.74	4.02	1.48	2	30	1.29	2.99	3.91
	2	3.48	8.03	2.95		40	1.66	3.83	4.47
	5	19.59	45.23	7.39		45	2.07	4.76	5.03
	7	36.97	83.07	10.35		50	2.51	5.79	5.58
	10	..	..	..		60	3.52	8.12	6.70
3/4	1	0.37	0.86	0.74		70	4.68	10.80	7.82
	2	0.74	1.72	1.57		75	5.31	12.27	8.38
	5	4.19	9.65	3.93		80	5.99	13.83	8.93
	7	7.69	17.76	5.49		90	7.45	17.20	10.05
	10	14.65	33.84	7.86		100	9.05	20.90	11.17
	15	31.05	71.70	11.76	2 1/2	1	..	..	..
1	1	..	..	..		2	..	..	..
	2	0.38	0.88	0.76		5	0.022	0.05	0.39
	5	1.99	4.75	2.84		7	0.032	0.07	0.54
	7	3.79	8.84	3.98		10	0.052	0.12	0.78
	10	6.16	14.68	5.68		15	0.11	0.26	1.17
	15	9.82	20.36	7.01		20	0.19	0.44	1.56
	20	15.00	34.68	9.95		25	0.29	0.67	1.95
	25	20.70	52.43	11.49		30	0.41	0.94	2.34
	30	31.87	73.48	14.03		35	0.54	1.25	2.73
1-1/4	1	..	..	..		40	0.69	1.60	3.12
	2	0.69	0.71	0.52		45	0.86	1.99	3.51
	5	0.29	0.66	1.30		50	1.05	2.42	3.90
	7	0.53	1.21	1.82		60	1.47	3.39	4.68
	10	1.09	2.50	2.60		70	1.95	4.51	5.46
	15	2.11	4.87	3.99		75	2.22	5.12	5.85
	20	3.59	8.30	5.20		80	2.50	5.77	6.24
	25	5.43	12.55	6.50		90	3.11	7.16	7.02
	30	7.62	17.59	7.80		100	3.78	8.73	7.80
	35	10.13	23.40	9.10		125	5.72	13.21	9.75
	40	12.98	29.97	10.40		150	8.00	18.48	11.70
	45	16.14	37.27	11.70	3	1	..	..	..
	50	19.61	45.30	13.00		2	..	..	..
1-1/2	1	..	..	..		5	0.009	0.02	0.25
	2	0.161	0.38	0.28		7	0.012	0.028	0.35
	5	0.126	0.30	0.94		10	0.017	0.04	0.50
	7	0.24	0.55	1.32		15	0.037	0.09	0.75
	10	0.45	1.04	1.88		20	0.065	0.15	1.00
	15	0.95	2.20	2.81		25	0.095	0.22	1.25
	20	1.62	3.75	3.75		30	0.13	0.31	1.49
	25	2.46	5.67	4.69		35	0.18	0.42	1.74
	30	3.44	7.95	5.63		40	0.23	0.54	1.99
	35	4.58	10.58	6.57		45	0.29	0.67	2.24
	40	5.87	13.55	7.50		50	0.35	0.81	2.49
	45	7.30	16.85	8.44		60	0.49	1.14	2.99
	50	8.97	20.48	9.38		70	0.65	1.51	3.49
	60	12.43	28.70	11.26		75	0.74	1.72	3.74
2	1	..	..	..		80	0.84	1.94	3.99
	2	..	..	..		90	1.04	2.41	4.48
	5	0.049	0.110	0.56		100	1.27	2.93	4.98
	7	0.095	0.13	0.78		125	1.92	4.43	6.23
	10	0.13	0.29	1.12		150	2.68	6.20	7.47
	15	0.27	0.62	1.68		175	3.58	8.26	8.72
	20	0.46	1.06	2.23		200	4.58	10.57	9.97
	25	0.69	1.60	2.79		250	6.93	16.00	12.46
	30	0.97	2.25	3.35		..	..	..	..

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance.

Flow/ Friction Charts : :

(Continued)

Schedule 80 : : *(Continued)*

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
4	20	0.017	0.04	0.57
	25	0.026	0.06	0.72
	30	0.036	0.08	0.86
	35	0.048	0.11	1.00
	40	0.061	0.14	1.15
	45	0.074	0.17	1.29
	50	0.091	0.21	1.43
	60	0.13	0.30	1.72
	70	0.17	0.39	2.01
	75	0.19	0.45	2.15
	80	0.22	0.50	2.29
	90	0.27	0.63	2.58
	100	0.33	0.76	2.87
	125	0.50	1.16	3.59
	150	0.70	1.61	4.30
	175	0.93	2.15	5.02
	200	1.19	2.75	5.75
	250	1.81	4.16	7.18
	300	2.55	5.83	8.60
	350	3.36	7.76	10.03
	400	4.30	9.93	11.47
5	50	0.013	0.03	0.54
	55	0.017	0.04	0.63
	60	0.017	0.04	0.72
	65	0.026	0.06	0.81
	70	0.030	0.07	0.90
	80	0.043	0.10	1.08
	90	0.054	0.13	1.26
	95	0.061	0.14	1.35
	100	0.069	0.16	1.44
	110	0.087	0.20	1.62
	120	0.10	0.24	1.80
	125	0.16	0.37	2.25
	150	0.23	0.52	2.70
	175	0.30	0.69	3.15
	200	0.38	0.88	3.60
	250	0.58	1.34	4.50
	300	0.81	1.87	5.40
	350	1.08	2.48	6.30
	400	1.38	3.19	7.19
	450	1.72	3.97	8.09
	500	2.09	4.82	8.99
6	60	0.013	0.03	0.63
	65	0.017	0.04	0.75
	70	0.022	0.05	0.88
	75	0.026	0.06	0.94
	80	0.030	0.07	1.00
	90	0.035	0.08	1.13
	100	0.043	0.10	1.25
	125	0.068	0.16	1.57
	150	0.095	0.22	1.88
	175	0.126	0.29	2.20
	200	0.161	0.37	2.51
	250	0.244	0.56	3.14
	300	0.342	0.79	3.76
	350	0.455	1.05	4.39
	400	0.583	1.35	5.02
	450	0.725	1.67	5.64
	500	0.881	2.03	6.27
	550	1.051	2.43	6.90
	600	1.235	2.85	7.52
	650	1.433	3.31	8.15
	700	1.645	3.80	8.78
	750	1.870	4.32	9.40
	800	2.109	4.87	10.03
	850	2.361	5.45	10.66
	900	2.627	6.07	11.28
	950	2.906	6.71	11.91
	1000	3.199	7.39	12.54
8	125	0.019	0.044	0.993
	150	0.022	0.05	1.07
	175	0.033	0.075	1.25
	200	0.039	0.09	1.43
	250	0.61	0.14	1.79
	300	0.087	0.20	2.14
	350	0.12	0.27	2.50
	400	0.15	0.34	2.86
	450	0.18	0.42	3.21
	500	0.22	0.51	3.57
	750	0.47	1.08	5.36
	1000	0.80	1.84	7.14
	1250	1.20	2.76	8.93
	1500	1.68	3.88	10.71
10	200	0.015	0.036	0.90
	250	0.02	0.045	1.14
	300	0.03	0.07	1.36
	350	0.037	0.085	1.59
	400	0.048	0.11	1.81
	450	0.061	0.14	2.04
	500	0.074	0.17	2.27
	550	0.16	0.36	3.40
	1000	0.25	0.41	4.54
	1250	0.49	0.92	5.67
	1500	0.56	1.29	6.80
	2000	0.95	2.19	9.07
	2500	1.44	3.33	11.34
12	350	0.016	0.037	1.12
	400	0.027	0.05	1.28
	450	0.026	0.06	1.44
	500	0.030	0.07	1.60
	750	0.065	0.15	2.40
	1000	0.11	0.26	3.20
	1250	0.17	0.40	4.01
	1500	0.24	0.55	4.81
	2000	0.41	0.94	6.41
	2500	0.62	1.43	8.01
	3000	0.86	1.99	9.61
	3500	1.15	2.65	11.21
	4000	1.48	3.41	12.82
	...	...	...	...

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance.

SDR 13.5 : :

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
1/2	1	0.45	1.03	0.85
	2	0.89	2.05	1.69
	5	5.01	11.58	4.22
	7	9.20	21.24	5.91
	10	17.52	40.46	8.44
3/4	1	0.15	0.34	0.54
	2	0.29	0.68	1.07
	5	1.65	3.82	2.68
	7	3.03	7.01	3.75
	10	5.78	13.34	5.35
	15	12.24	28.27	8.03
	20	20.86	48.17	10.70
1	1	..	..	..
	2	0.17	0.40	0.68
	5	0.51	1.24	1.69
	7	0.99	2.28	2.36
	10	1.67	4.33	3.37
	15	3.97	9.18	5.06
	20	6.77	15.64	6.74
	25	10.24	23.65	8.43
	30	14.36	33.15	10.11
1-1/4	1	..	..	..
	2	0.06	0.13	0.42
	5	0.17	0.39	1.05
	7	0.31	0.72	1.47
	10	0.55	1.27	2.10
	15	1.26	2.91	3.15
	20	2.15	4.96	4.21
	25	3.21	7.40	5.26
	30	4.55	10.50	6.31
	35	6.05	13.97	7.36
	40	7.75	17.90	8.41
	45	9.64	22.26	9.4
	50	11.71	27.05	10.52
1-1/2	1	..	..	..
	2	0.0078	0.065	0.32
	5	0.068	0.20	0.80
	7	0.16	0.37	1.12
	10	0.31	0.71	1.60
	15	0.65	1.50	2.40
	20	1.10	2.56	3.20
	25	1.67	3.85	4.00
	30	2.34	5.40	4.80
	35	3.11	7.19	5.60
	40	3.98	9.20	6.40
	45	4.95	11.44	7.20
	50	6.02	13.91	8.00
	60	8.44	19.59	9.60
2	1	..	..	..
	2	0.013	0.05	0.20
	5	0.033	0.075	0.51
	7	0.054	0.125	0.72
	10	0.10	0.24	1.02
	15	0.22	0.50	1.53
	20	0.37	0.85	2.04
	25	0.56	1.29	2.55
	30	0.78	1.80	3.06
	35	1.04	2.40	3.57
	40	1.33	3.07	4.08
	45	1.65	3.82	4.59
	50	2.01	4.64	5.10
	60	2.81	6.50	6.12
	70	3.75	8.65	7.14
	75	4.26	9.83	7.65
	80	4.80	11.08	8.16
	90	5.97	13.76	9.18
	100	7.25	16.75	10.20
2-1/2	1	..	..	..
	2	..	..	..
	5	0.016	0.038	0.35
	7	0.029	0.065	0.49
	10	0.038	0.09	0.70
	15	0.007	0.20	1.04
	20	0.15	0.34	1.39
	25	0.22	0.51	1.74
	30	0.31	0.71	2.09
	35	0.41	0.95	2.44
	40	0.52	1.21	2.78
	45	0.65	1.51	3.13
	50	0.79	1.83	3.48
	60	1.11	2.57	4.18
	70	1.48	3.42	4.87
	75	1.68	3.88	5.22
	80	1.89	4.37	5.57
	90	2.35	5.44	6.27
	100	2.86	6.61	6.96
	125	4.33	10.01	8.70
	150	6.07	14.01	10.44
3	1	..	..	..
	2	..	..	..
	5	0.009	0.02	0.24
	7	0.012	0.03	0.33
	10	0.017	0.04	0.47
	15	0.035	0.08	0.70
	20	0.056	0.13	0.93
	25	0.080	0.19	1.17
	30	0.12	0.27	1.41
	35	0.16	0.36	1.64
	40	0.20	0.46	1.88
	45	0.25	0.58	2.11
	50	0.30	0.70	2.35
	60	0.42	0.98	2.82
	70	0.57	1.31	3.29
	75	0.65	1.49	3.52
	80	0.73	1.68	3.76
	90	0.92	2.09	4.23
	100	1.10	2.54	4.70
	125	1.66	3.84	5.88
	150	2.33	5.37	7.04
	175	3.10	7.15	8.22
	200	3.96	9.15	9.39
	250	6.00	13.86	11.74

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance.

Flow/ Friction Charts : :

(Continued)

SDR 13.5 : : *(Continued)*

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
4	20	0.017	0.04	0.57	5	100	0.12	0.27	1.86
	25	0.026	0.06	0.71		125	0.18	0.40	2.33
	30	0.035	0.08	0.86		150	0.24	0.56	2.79
	35	0.048	0.11	0.99		175	0.33	0.75	3.26
	40	0.062	0.14	1.14		200	0.42	0.96	3.72
	45	0.074	0.17	1.28		250	0.63	1.46	4.66
	50	0.091	0.21	1.42		300	0.88	2.03	5.58
	60	0.13	0.29	1.70		350	1.17	2.70	6.52
	70	0.16	0.38	1.99		400	1.50	3.46	7.44
	75	0.19	0.44	2.13		450	1.87	4.31	8.37
	80	0.21	0.49	2.27		500	2.27	5.24	9.30
	90	0.26	0.61	2.56	6	50	0.014	0.03	0.66
	100	0.32	0.74	2.84		60	0.017	0.04	0.79
	125	0.49	1.13	3.55		70	0.026	0.06	0.92
	150	0.68	1.58	4.26		75	0.030	0.07	0.98
	175	0.91	2.10	4.97		80	0.035	0.08	1.05
	200	1.16	2.69	5.68		90	0.039	0.09	1.18
	250	1.76	4.07	7.10		100	0.046	0.11	1.31
	300	2.46	5.69	8.52		125	0.074	0.17	1.64
	350	3.29	7.58	9.94		150	0.10	0.24	1.97
	400	4.20	9.70	11.36		175	0.14	0.32	2.30
5	30	0.013	0.03	0.56		200	0.18	0.41	2.62
	35	0.017	0.04	0.65		250	0.27	0.62	3.28
	40	0.022	0.05	0.74		300	0.38	0.87	3.93
	45	0.026	0.06	0.84		350	0.50	1.16	4.59
	50	0.032	0.07	0.93		400	0.64	1.48	5.24
	60	0.043	0.10	1.12		450	0.80	1.84	5.90
	70	0.061	0.14	1.30		500	0.97	2.23	6.55
	75	0.069	0.16	1.40		750	2.05	4.73	9.83
	80	0.078	0.18	1.49		1000	3.49	8.05	13.11
	90	0.095	0.22	1.67		...	...	...	...

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance.

SDR 21 : :

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
1/2	1	0.44	1.00	0.84	2	25	0.41	0.95	2.25
	2	0.87	2.00	1.67		30	0.58	1.34	2.71
	3	1.87	11.25	4.17		35	0.77	1.78	3.16
	7	8.95	20.66	5.84		40	0.98	2.27	3.61
	10	17.03	39.32	8.34		45	1.23	2.85	4.06
3/4	1	0.12	0.28	0.50		50	1.49	3.44	4.51
	2	0.24	0.56	0.99		60	2.09	4.82	5.41
	5	1.06	2.14	2.47		70	2.78	6.41	6.31
	7	2.49	5.76	3.46		75	3.16	7.29	6.76
	10	4.75	10.96	4.96		80	3.55	8.21	7.21
	15	10.06	23.23	7.40		90	4.42	10.21	8.12
	20	17.13	39.57	9.87		100	5.37	12.41	9.02
1	2	0.13	0.30	0.60	2-1/2	1	...	...	...
	5	0.41	0.95	1.50		2	...	...	...
	7	0.74	1.70	2.09		5	0.014	0.031	0.031
	10	1.40	3.24	2.99		7	0.020	0.044	0.43
	15	2.97	6.86	4.49		10	0.03	0.07	0.61
	20	5.06	11.68	5.98		15	0.61	0.14	0.92
	25	7.65	17.66	7.48		20	0.13	0.25	1.23
	30	10.72	24.76	8.97		25	0.16	0.37	1.53
	35	14.26	32.94	10.47		30	0.23	0.52	1.84
1-1/4	2	0.04	0.095	0.37		35	0.30	0.70	2.15
	5	0.13	0.30	0.93		40	0.38	0.89	2.45
	7	0.23	0.54	1.31		45	0.48	1.11	2.76
	10	0.44	1.02	1.86		50	0.58	1.35	3.07
	15	0.94	2.16	2.79		60	0.82	1.89	3.68
	20	1.59	3.69	3.72		70	1.09	2.51	4.29
	25	2.41	5.56	4.65		75	1.28	2.95	4.45
	30	3.38	7.80	5.58		80	1.39	3.22	4.91
	35	4.49	10.37	6.51		90	1.73	4.00	5.52
	40	5.75	13.28	7.44		100	2.12	4.86	6.14
	45	7.15	16.52	8.37		125	3.19	7.36	7.67
	50	8.69	20.08	9.30		150	4.46	10.30	9.20
	60	12.18	28.14	11.17		175	5.94	13.71	10.74
1-1/2	2	0.028	0.06	0.29	3	5	0.006	0.015	0.20
	5	0.095	0.15	0.71		7	0.009	0.021	0.29
	7	0.12	0.28	0.99		10	0.013	0.03	0.41
	10	0.23	0.52	1.41		15	0.026	0.06	0.62
	15	0.48	1.11	2.12		20	0.039	0.09	0.83
	20	0.82	1.89	2.83		25	0.061	0.14	1.03
	25	1.23	2.85	3.54		30	0.087	0.20	1.24
	30	1.73	4.00	4.24		35	0.12	0.27	1.45
	35	2.30	5.32	4.95		40	0.15	0.34	1.65
	40	2.95	6.81	5.66		45	0.18	0.42	1.86
	45	3.67	8.47	6.36		50	0.22	0.51	2.06
	50	4.46	10.29	7.07		60	0.31	0.72	2.48
	60	6.24	14.42	8.49		70	0.42	0.96	2.89
	70	8.31	19.19	9.90		75	0.47	1.09	3.10
	75	9.44	21.80	10.61		80	0.53	1.23	3.30
2	1	...	...	...		90	0.65	1.52	3.72
	2	0.010	0.023	0.15		100	0.80	1.85	4.13
	5	0.025	0.06	0.45		125	1.22	2.81	5.17
	7	0.035	0.081	0.63		150	1.79	3.93	6.19
	10	0.074	0.17	0.90		175	2.26	5.23	7.23
	15	0.16	0.37	1.35		200	2.95	6.69	8.26
	20	0.27	0.63	1.80		250	4.37	10.13	10.33

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance.

Flow/ Friction Charts : :

(Continued)

SDR 21 : : *(Continued)*

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
4	20	0.013	0.03	0.52	6	175	0.103	0.24	2.02
	25	0.017	0.04	0.65		200	0.13	0.30	2.31
	30	0.026	0.06	0.75		250	0.20	0.46	2.89
	35	0.035	0.08	0.87		300	0.27	0.63	3.46
	40	0.043	0.10	1.00		350	0.37	0.85	4.04
	45	0.052	0.12	1.12		400	0.47	1.08	4.61
	50	0.065	0.15	1.25		450	0.58	1.34	5.19
	60	0.091	0.21	1.50		500	0.71	1.63	5.76
	70	0.12	0.28	1.75		750	1.50	3.46	8.64
	75	0.14	0.32	1.87		1000	2.55	5.89	11.53
	80	0.16	0.36	2.00	8	100	0.012	0.03	0.67
	90	0.19	0.43	2.25		125	0.015	0.037	0.85
	100	0.23	0.54	2.50		150	0.022	0.05	1.02
	125	0.36	0.82	3.13		175	0.028	0.065	1.19
	150	0.50	1.15	3.75		200	0.035	0.08	1.36
	175	0.67	1.54	4.37		250	0.054	0.125	1.70
	200	0.85	1.96	4.99		300	0.078	0.18	2.04
	250	1.29	2.97	6.24		350	0.105	0.24	2.38
	300	1.80	4.16	7.49		400	0.13	0.30	2.72
	350	2.40	5.54	8.74		450	0.16	0.37	3.06
	400	3.07	7.09	9.99		500	0.19	0.45	3.40
	450	3.82	8.82	11.24		750	0.42	0.96	5.10
	500	4.64	10.72	12.48		1000	0.64	1.63	6.80
5	30	0.009	0.02	0.49		1250	1.07	2.47	8.50
	35	0.013	0.03	0.57		1500	1.49	3.45	10.19
	40	0.017	0.04	0.65		2000	2.54	5.87	13.59
	45	0.017	0.04	0.74	10	200	0.012	0.027	0.86
	50	0.022	0.05	0.82		250	0.020	0.045	1.10
	60	0.035	0.08	0.98		300	0.026	0.06	1.31
	70	0.043	0.10	1.14		350	0.035	0.08	1.54
	75	0.048	0.11	1.23		400	0.043	0.10	1.75
	80	0.056	0.13	1.31		450	0.056	0.13	1.97
	90	0.069	0.16	1.47		500	0.065	0.15	2.19
	100	0.082	0.19	1.63		750	0.14	0.33	3.29
	125	0.13	0.30	2.04		1000	0.24	0.56	4.38
	150	0.18	0.41	2.45		1250	0.37	0.85	5.48
	175	0.24	0.55	2.86		1500	0.51	1.18	6.57
	200	0.30	0.70	3.27		2000	0.87	2.02	8.76
	250	0.46	1.06	4.09		2500	1.33	3.06	10.96
	300	0.64	1.48	4.90		3000	1.85	4.27	13.15
	350	0.86	1.98	5.72	12	350	0.016	0.036	1.06
	400	1.10	2.53	6.53		450	0.017	0.04	1.24
	450	1.36	3.14	7.35		450	0.026	0.06	1.40
	500	1.65	3.82	8.17		500	0.030	0.07	1.55
	750	3.50	8.09	12.26		750	0.061	0.14	2.33
6	50	0.009	0.02	0.55		1000	0.10	0.24	3.11
	60	0.013	0.03	0.69		1250	0.16	0.37	3.89
	70	0.017	0.04	0.81		1500	0.22	0.51	4.66
	75	0.022	0.05	0.86		2000	0.38	0.87	6.22
	80	0.022	0.05	0.92		2500	0.57	1.33	7.77
	90	0.030	0.07	1.04		3000	0.80	1.85	9.33
	100	0.035	0.08	1.15		3500	1.07	2.47	10.88
	125	0.054	0.125	1.44		4000	1.37	3.17	12.44
	150	0.078	0.18	1.73		4500	1.70	3.93	13.99

* For data, sizes, or classes not reflected in these charts, please contact JM∧M for assistance.

SDR 26 : :

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
1/2	1	0.43	1.00	0.84	2	20	0.25	0.57	1.73
	2	0.86	2.00	1.67		25	0.37	0.86	2.16
	5	4.82	11.25	4.17		30	0.52	1.21	2.60
	7	8.95	20.66	5.84		35	0.70	1.61	3.03
	10	12.07	27.86	8.34		40	0.89	2.06	3.46
3/4	1	0.12	0.28	0.56		45	1.11	2.56	3.90
	2	0.24	0.56	0.59		50	1.35	3.11	4.33
	5	1.36	3.14	0.47		60	1.89	4.36	5.19
	7	2.49	5.76	3.46		70	2.51	5.80	6.06
	10	4.76	10.96	4.94		75	2.86	6.60	6.49
	15	10.06	23.23	7.40		80	3.22	7.43	6.92
	20	17.15	39.62	9.87		90	4.01	9.25	7.79
1	2	0.13	0.29	0.59		100	4.87	11.24	8.65
	5	0.59	0.91	1.48	2-1/2	1	..	..	..
	7	0.75	1.66	2.08		2	..	..	..
	10	1.37	3.16	2.96		5	0.041	0.095	0.30
	15	2.90	6.69	4.44		7	0.075	0.036	0.42
	20	4.94	11.40	5.92		10	0.026	0.06	0.59
	25	7.45	17.23	7.40		15	0.056	0.13	0.88
	30	10.46	24.15	8.88		20	0.095	0.22	1.18
	35	13.91	32.13	10.36		25	0.15	0.34	1.47
1-1/4	2	0.037	0.085	0.36		30	0.20	0.47	1.77
	5	0.117	0.27	0.90		35	0.27	0.63	2.06
	7	0.21	0.49	1.25		40	0.35	0.81	2.35
	10	0.40	0.92	1.79		45	0.43	1.00	2.65
	15	0.85	1.96	2.66		50	0.53	1.22	2.94
	20	1.45	3.34	3.58		60	0.74	1.71	3.53
	25	2.18	5.04	4.47		70	0.98	2.27	4.12
	30	3.06	7.07	5.36		75	1.12	2.58	4.41
	35	4.07	9.41	6.26		80	1.26	2.91	4.71
	40	5.22	12.05	7.15		90	1.57	3.62	5.30
	45	6.49	14.98	8.04		100	1.90	4.39	5.89
	50	7.88	18.21	8.94		125	2.88	6.65	7.36
1-1/2	2	0.0397	0.092	0.27		150	4.03	9.31	8.83
	5	0.059	0.14	0.68		175	5.37	12.40	10.31
	7	0.104	0.25	0.96	3	5	0.0215	0.05	0.20
	10	0.20	0.47	1.36		7	0.0363	0.014	0.28
	15	0.43	1.00	2.04		10	0.059	0.02	0.40
	20	0.74	1.71	2.72		15	0.022	0.05	0.59
	25	1.12	2.59	3.40		20	0.039	0.09	0.79
	30	1.57	3.63	4.08		25	0.055	0.13	0.99
	35	2.09	4.83	4.76		30	0.078	0.18	1.19
	40	2.68	6.18	5.44		35	0.10	0.24	1.39
	45	3.33	7.69	6.12		40	0.13	0.31	1.59
	50	4.04	9.34	6.80		45	0.16	0.38	1.78
	60	5.67	13.10	8.16		50	0.20	0.47	1.98
	70	7.54	17.42	9.52		60	0.28	0.65	2.38
	75	8.57	19.80	10.19		70	0.38	0.87	2.78
	80	9.66	22.31	10.87		75	0.43	0.99	2.97
	90	12.01	27.75	12.23		80	0.48	1.11	3.17
	100	14.61	33.73	13.59		90	0.60	1.36	3.57
2	1	..	..	..		100	0.73	1.68	3.97
	2	0.604	0.01	0.17		125	1.10	2.54	4.96
	5	0.020	0.045	0.44		150	1.54	3.56	5.95
	7	0.035	0.08	0.61		175	2.05	4.74	6.94
	10	0.069	0.16	0.87		200	2.63	6.07	7.93
	15	0.14	0.33	1.31		250	3.98	9.18	9.92

* For data, sizes, or classes not reflected in these charts, please contact JM∧M for assistance.

Flow/ Friction Charts : :

(Continued)

SDR 26 : : *(Continued)*

Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)	Size (in)	Flow (gal/min)	Friction loss (psi)	Friction head (ft)	Velocity (ft/s)
4	20	0.009	0.02	0.48	6	125	0.021	0.05	1.24
	25	0.017	0.04	0.60		200	0.12	0.27	2.21
	30	0.022	0.05	0.72		225	0.18	0.41	2.76
	35	0.030	0.07	0.84		300	0.25	0.57	3.31
	40	0.038	0.09	0.96		350	0.33	0.76	3.87
	45	0.048	0.11	1.08		400	0.42	0.97	4.42
	50	0.061	0.14	1.20		450	0.52	1.21	4.97
	60	0.082	0.19	1.44		500	0.64	1.47	5.52
	70	0.11	0.25	1.67		750	1.35	3.12	8.28
	75	0.13	0.29	1.79		1000	2.30	5.31	11.05
	80	0.14	0.32	1.91	8	100	0.012	0.03	0.66
	90	0.17	0.40	2.15		125	0.015	0.037	0.83
	100	0.21	0.49	2.39		150	0.017	0.04	0.98
	125	0.33	0.74	2.99		175	0.026	0.06	1.14
	150	0.45	1.04	3.59		200	0.036	0.07	1.30
	175	0.60	1.39	4.19		250	0.048	0.11	1.63
	200	0.77	1.77	4.79		300	0.069	0.16	1.95
	250	1.16	2.68	5.98		350	0.091	0.21	2.28
	300	1.62	3.75	7.18		400	0.12	0.27	2.61
	350	2.17	5.00	8.38		450	0.14	0.32	2.93
	400	2.77	6.39	9.57		500	0.18	0.41	3.26
	450	3.44	7.95	10.77		750	0.37	0.86	4.89
	500	5.18	9.66	11.96		1000	0.61	1.42	6.51
5	30	0.009	0.02	0.47		1250	0.96	2.22	8.15
	35	0.013	0.03	0.55		1500	1.35	3.11	9.77
	40	0.018	0.03	0.63		2000	2.29	5.30	13.03
	45	0.017	0.04	0.71	10	200	0.012	0.027	0.83
	50	0.022	0.05	0.78		250	0.017	0.04	1.05
	60	0.030	0.07	0.94		300	0.022	0.05	1.26
	70	0.039	0.09	1.10		350	0.033	0.075	1.47
	75	0.043	0.10	1.18		400	0.039	0.09	1.68
	80	0.052	0.12	1.25		450	0.048	0.11	1.89
	90	0.061	0.14	1.41		500	0.061	0.14	2.10
	100	0.078	0.18	1.57		750	0.13	0.29	3.16
	125	0.12	0.27	1.96		1000	0.22	0.50	4.19
	150	0.16	0.37	2.35		1250	0.33	0.76	5.27
	175	0.22	0.50	2.74		1500	0.46	1.06	6.29
	200	0.27	0.62	3.13		2000	0.78	1.81	8.38
	250	0.42	0.96	3.92		2500	1.19	2.74	10.48
	300	0.58	1.34	4.70		3000	1.66	3.84	12.56
	350	0.77	1.79	5.49	12	350	0.017	0.04	1.04
	400	0.99	2.28	6.27		400	0.017	0.04	1.19
	450	1.23	2.84	7.05		450	0.022	0.05	1.34
	500	1.49	3.45	7.84		500	0.026	0.06	1.49
	750	3.17	7.31	11.75		750	0.056	0.13	2.23
6	50	0.009	0.02	0.55		1000	0.095	0.22	2.98
	60	0.013	0.03	0.66		1250	0.15	0.34	3.73
	70	0.017	0.04	0.77		1500	0.20	0.46	4.47
	75	0.017	0.04	0.83		2000	0.34	0.79	5.96
	80	0.022	0.05	0.88		2500	0.52	1.20	7.45
	90	0.026	0.06	0.99		3000	0.72	1.67	8.94
	100	0.030	0.07	1.10		3500	0.96	2.22	10.43
	125	0.047	0.11	1.39		4000	1.24	2.86	11.92
	150	0.065	0.16	1.66		4500	1.53	3.54	13.41

* For data, sizes, or classes not reflected in these charts, please contact JMM for assistance.

Short Form Installation Guide and Warning : :

: : This information is furnished in order to provide a brief review of the installation requirements for JMM Solvent Weld PVC pipe. It is not intended to serve as or replace the function of the full version product installation guide available upon request.

1. Use a good quality ABS cement and primer which meets **ASTM D 2235** for ABS pipe only. For PVC pipe, use a good quality PVC cement and primer which meets **ASTM D 2564.**

2. Cut pipe to desired length with pipe cutters, hacksaw, or cross cut saw.

3. Ream pipe both internally and externally or remove burs and ragged edges.

4. Before making solvent weld joint be sure all joining surfaces are free of dirt, dust, water and oil.

5. Immediately apply a smooth coat of primer and cement to the joining surfaces

6. Immediately insert the pipe into the full depth of the fitting socket.

7. Turn pipe 1/8 to 1/4 turn in the socket to ensure an even spread of cement

8. Hold firmly in position for 15 seconds.

9. Allow joint to set according to cement manufacturer's instructions.

10. Curvature of the pipe shall be accomplished through longitudinal bending of the pipe barrel.

Pipe Size (in)	Radius (ft)	Pipe Size (in)	Radius (ft)	Pipe Size (in)	Radius (ft)
1.5	38	3	75	6	200
2	50	4	100	8	250
2.5	63	6	150	12	300

11. All taps performed on JMM's pressure products, shall be in accordance with JMM Publication TR-410A, "Pressure Pipe Tapping Guide."

⚠WARNING : RUPTURE HAZARD

IMPROPER INSTALLATION OR MISUSE OF TAPPING TOOLS MAY CAUSE PIPES UNDER HIGH PRESSURE TO RUPTURE AND RESULT IN HIGH VELOCITY AIRBORNE FRAGMENTATION LEADING TO SERIOUS INJURIES AND/OR DEATH.

::BEFORE AND DURING INSTALLATION, ALWAYS:
- Consult and follow the FULL VERSION of the product installation guide
- Closely follow job specifications
- Use protective gear and equipment

::BEFORE AND DURING TAPPING, ALWAYS:
- Consult and follow JMM Publication TR-410A "Pressure Pipe Tapping Guide"
- Use the correct tapping tools
- Bleed air from pipes at high spot before tapping
- Use protective gear and equipment

Please contact JMM Product Assurance at (800) 621-4404 to obtain full version of the appropriate installation guide or for further assistance.

Warranty : :

JMM PRODUCTS LIMITED WARRANTY

J.M. Manufacturing Company, Inc. (JMM) warrants that its standard polyvinyl chloride (PVC) polyethylene (PE), conduit/plumbing/solvent weld and Acrylonitrile-Butadiene-Styrene (ABS) pipe products ("Products") are manufactured in accordance with applicable industry specifications referenced on the Product and are free from defects in workmanship and materials. Every claim under this warranty shall be void unless in writing and received by JMM within thirty (30) days of the date the defect was discovered, and within one (1) year of the date of shipment from the JMM plant. Claims for Product appearance defects such as sun-bleached pipe etc. however, must be made within thirty (30) days of the date of the shipment from the JMM plant. This warranty specifically excludes any Products allowed to become sun-bleached after shipment from the JMM plant. Proof of purchase with the date thereof must be presented to the satisfaction of JMM, with any claim made pursuant to this warranty. JMM must first be given an opportunity to inspect the alleged defective Products in order to determine if it meets applicable industry standards, if the handling and installation have been satisfactorily performed in accordance with JMM recommended practices and if operating conditions are within standards. Written permission and/or a Return Goods Authorization (RGA) must be obtained along with instructions for return shipment to JMM of any Products claimed to be defective.

The limited and exclusive remedy for breach of this Limited Warranty shall be, at JMM's sole discretion, the replacement of the same type, size and like quantity of non-defective Product, or credits, offsets or combination of thereof, for the wholesale purchase price of the defective unit.

This Limited Warranty does not apply for any Product failures caused by user's flawed designs or specifications, unsatisfactory applications, improper installations, use in conjunction with incompatible materials, contact with aggressive chemical agents, freezing or overheating of fluids in the product and any other misuse causes not listed here. This limited warranty also excludes failure or damage caused by the sticking materials, thread sealants, plasticized vinyl products or damage caused by the fault or negligence of anyone other than JMM, or any other act or event beyond the control of JMM.

JMM's liability shall not, at any time, exceed the actual wholesale purchase price of the Product. The warranties in this document are the only warranties applicable to the product and there are no other warranties, expressed or implied. This limited warranty specifically excludes any liability for general damages, consequential or incidental damages, including without limitation, costs incurred from removal, reinstallation or other expenses resulting from any defect. IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED AND JMM SHALL NOT BE LIABLE IN THIS RESPECT NOTWITHSTANDING JMM's ACTUAL KNOWLEDGE THE PRODUCT'S INTENDED USE.

JMM's Products should be used in accordance with standards set forth by local plumbing and building laws, codes, or regulations and the applicable standards. Failure to adhere to these standards shall void this Limited Warranty. Products sold by JMM that are manufactured by others are warranted only to the extent and limits of the warranty of the manufacturer. No statement, conduct or description by JMM or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of JMM.

Locations : :

• HEADQUARTERS
Nine Peach Tree Hill Road
Livingston, NJ 07039

• ADEL
2101 J-M Drive
Adel, GA 31620

• BATCHELOR
2894 Mellon Monk Rd
LA Highway 1
Batchelor, LA 70715

• BUTNER
2602 West Lyon Station Road
Creedmoor, NC 27522

• FONTANA
16950 Hemlock Avenue
Fontana, CA 92337

• KINGMAN
4690 Olympic Way
Kingman, AZ 86401

• MAGNOLIA
2220 Concrete Drive
Magnolia, AR 71753

• MCNARY
31240 Parkway Road
Umatilla, OR 97882

• MEADVILLE
RD 2, Diana Road, Box 124
Kobert Industrial Park
Cochranton, PA 16314

• PUEBLO
1749 East Platteville Boulevard
Pueblo West, CO 81007

• STOCKTON
1051 Sperry Road
Stockton, CA 95206

• WHARTON
700A Hwy 59 Loop
Wharton, TX 77488

• WILTON
1334 West Third Street
Wilton, IA 52778

• WINNEBAGO
743 Main Street South
Winnebago, MN 56098

• MEXICO
PLASTICOS TECHNOLOGY
DE MÉXICO S DE P.L. DE S.A.
Av. Montes Urales No. 6 y 10
Parque Industrial Clocán, Carretera
57 Km. - S.L.P. Km. 57.8
C.P. 37980 San José Iturbide,
Guanajuato México
*Our Mexico location is a joint venture between JMM and Plastics Technology

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor	**Date:** 1 September 2006	**Job No.:** SC-0349-02
ADDRESS:	Comanco Environmental Corporation	**Project Name**	
	1135 Terminal Way, Suite 204A	International Uranium (USA) Corporation	
	Reno, Nevada 89502	White Mesa Mill	
		Cell 4A	

Submittal I.D. No.: 5R	Revision No.: -	Contractor Submittal No.: 5R
Specification Section(s): 02616	Date of Submittal Report: 23 August 2006	
Submittal Subject: Strip Composite		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.09.05 08:13:52 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	5-R	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Strip Composite Properties

Specification Identifier: 02616, 2.03, A.

Supplier: GDE Control Products

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/1/06 By: _____

GDE Control Products, Inc.

Multi-FLO

Technical Properties

Multi-Flow

Product Information

Applications

Fittings
Accessories

Technical

Backfill

Installation
Drainage Guide
FAQ's

Drainage Core

Property	Test Method	Value
Thickness, inches	ASTM D-1777	1.0
Flow Rate, gpm/ft*	ASTM D-4716	29
Compressive Strength	ASTM D-1621	6000

Geotextile Filter

Property	Test Method	Value
Weight, oz/sq yd2	ASTM D-3776	4.0
Tensile Strength, lb.	ASTM D-4632	100
Elongation, %	ASTM D-4632	50
Puncture, lb.	ASTM D-4833	50
Mullen Burst, psi	ASTM D-3786	200
Trapezoidal Tear, lb.	ASTM D-4533	42
Coeffecient of Perm,cm/sec	ASTM D-4491	0.1
Flow Rate, gpm/ft2	ASTM D-4491	100
Permittivity, 1/sec	ASTM D-4491	1.8
A.O.S Max US Std Sieve	ASTM D 4751	70
UV Stability, 500 hrs., %	ASTM D-4355	70
Seam Strength, lb./ft	ASTM D-4595	100
Fungus	ASTM G-21	No Growth

* Horizontal Installation , gradient = 0.01, compressive force = 10 psi for 1(

All values given represent minimum average roll values

GDE Control Products, Inc. Laguna Hills, CA. 949-305-7117

GEOSYNTEC CONSULTANTS

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San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 5	Revision No.: -	Contractor Submittal No.: 5
Specification Section(s): 02616, 2.03, A.	Date of Submittal Report: 21 August 2006	
Submittal Subject: Strip Composite Properties		

Notations:

- ☐ No Exception Taken
- ☐ Correct as Noted
- ☒ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Polystyrene is not acceptable material for the core of the strip drain material due to a highly acidic environment. Resubmit strip composite with a HDPE core.

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow	08/21/06	Gregory T. Corcoran	8/21/06
Prepared by	**Date**	**Engineer-of-Record**	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 5

Submitted:

No. of Copies: 2

[X]	Original Submittal
[ ]	Resubmittal
[ ]	Supplement
[ ]	Information Only

Submittal Description: Strip Composite Properties

Specification Identifier: 02616, 2.03, A.

Supplier: Contech

COMPLETED BY ENGINEER:

No. of Copies Received:

No. of Copies Returned:

Status:

[ ]	Code 1 - Approved
[ ]	Code 2 - Approved As Noted
[ ]	Code 3 - Approved As Noted, Confirm
[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 5 - Not Approved
[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☐ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☒ REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/2/06

CONTECH® STRIP DRAIN

PRODUCT DESCRIPTION

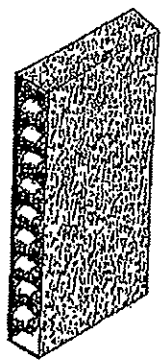
CONTECH Strip Drain is a two-part prefabricated soil strip drain consisting of a formed polystyrene core covered on all sides with a non-woven, needle-punched polypropylene filter fabric. The fabric allows water to pass into the drain core while restricting the movement of soil particles which might clog the core. The core allows the water to flow to designated drainage exits.

BASIC USES

CONTECH Strip Drain is designed to replace perforated pipe and stone drainage systems in various applications. It provides a significantly higher flow rate as well as increased ease of handling and installation. The product can be used alone or with other CONTECH products, depending on the application.

PACKAGING

6" x 150' Rolls
12" x 150' or 500' Rolls
18" x 150' or 500' Rolls
24" x 150' or 500' Rolls
36" x 100' Rolls



INSTALLATION INSTRUCTIONS

DRAIN ATTACHMENT METHODS:
When attachment to waterproofing material, concrete or wood is necessary, several methods may be used including metal stick pins, nails driven through washers or wood lathing, construction adhesives or double sided tape. Discuss materials compatibility with waterproofing supplier before using adhesives. Typically any method used for attaching waterproofing protection board will work with drain.

OUTLETS:
Fittings are available to connect Strip Drain to 4" pipe. These are available in several configurations, depending on drain width and pipe location. Details are available upon request.

SPLICES:
Splices are available for 6" Strip Drain. Other widths are spliced by peeling back the fabric and interlocking the dimpled core. Afterwards, replace the fabric and secure with tape.

CORNERS:
Fittings are available for bending drain around corners. Detailed instructions for installation of fittings available upon request.

BACKFILLING:
Soil should be placed and compacted directly against the drain. Direct compactor exhaust away from drain to prevent damage. Backfill to a minimum 3" above drain to allow for coverage after settlement.

DETAILED INSTRUCTIONS FOR INSTALLATION AND TERMINATION ARE AVAILABLE UPON REQUEST.

CONTECH® CONSTRUCTION PRODUCTS INC.
CONTECH Construction Products Inc.
2650 Loomis Road
Stockton, CA 95205
Phone: (925) 935-4604
Fax: (925) 935-4619
Website: www.contech-cpi.com

Strip Drain
Technical Data

PHYSICAL PROPERTIES	TYPICAL US VALUE	TYPICAL SI VALUE	TEST METHOD
FABRIC PROPERTIES			
Material	Polypropylene	Polypropylene	
Grab Tensile Strength	110 lbs	485N	ASTM D-4632
Puncture Strength	65 lbs	285N	ASTM D-4833
Trapezoidal Tear	50 lbs	220N	ASTM D-4533
Mullen Burst Strength	215 psi	1430kPa	ASTM D-3786
Elongation	60%	60%	ASTM D-4632
EOS (AOS)	100 sieve	150 micron	ASTM D-4751
Permittivity	1.6 sec^{-1}	1.6 sec^{-1}	ASTM D-4491
Permeability	0.3 cm/sec	0.3 cm/sec	ASTM D-4491
Flow Rate	150 g/min/ft^2	6110 L/min/m^2	ASTM D-4491
UV Resistance (After 500 hrs.)	70%	70%	ASTM D-4355
DRAIN PROPERTIES			
Peel Strength	38 lbs/ft^2	4 N/m^2	ASTM D-1876
Compressive Strength	6,000-9000 lbs/ft^2	630-940 N/m^2	ASTM D-1621 (Mod.)
Shear Strength	6,000-9000lbs/ft^2	630-940 N/m^2	ASTM D-1621 (Mod.)
Fungus Resistance (Core)	No Growth	No Growth	ASTM G-21
Unobstructed Inflow Area (Primary Side)	85%	85%	
In-Plane Flow (Hydraulic gradient=0.1, Loading=10 psi)	21 gpm/ft width	261 L/min/m width	ASTM D-4716

DIMENSIONAL PROPERTIES

	6'x160'	12'x160'	12'x500'	18'x160'	18'x500'	24'x160'	24'x500'	36'x100'
Thickness (in)	1	1	1	1	1	1	1	1
Widths (in)	6	12	12	18	18	24	24	36
Roll Length (ft)	150	150	500	150	500	100	500	100
Roll Diameter (ft)	5	5	7	5	7	5	7	3.5
Roll Weight (lbs)	24	48	160	72	240	64	320	96

All information, drawings and specifications are based on the latest product information available at the time of printing. Constant improvement and engineering progress make it necessary that we reserve the right to make changes without notice. All physical properties are typical values. Standard variations in mechanical properties of 10% and in hydraulic properties of 20% are normal.

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Stockton, CA 95205
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GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 6	Revision No.: -	Contractor Submittal No.: 6
Specification Section(s): 02225	Date of Submittal Report: 7 August 2006	
Submittal Subject: Drainage Aggregate		

Notations:

- ☐ No Exception Taken
- ☐ Correct as Noted
- ☒ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Aggregate shall have maximum particle size (i.e. 100% passing sieve) of ¾-inch.

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 13:48:01 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	6	☒	Original Submittal	☐	Supplement
Submitted:		☐	Resubmittal	☐	Information Only
No. of Copies:	2				

Submittal Description: Aggregate Properties

Specification Identifier: 02225, 1.04, A.

Supplier:

COMPLETED BY ENGINEER:

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	☐	Code 1 - Approved	☐	Code 4 - Approved As Noted, Resubmit
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	☐	Code 3 - Approved As Noted, Confirm	☐	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

SPEEDIE AND ASSOCIATES
GEOTECHNICAL / ENVIRONMENTAL / MATERIALS ENGINEERS
3991 E. WOOD STREET • PHOENIX, ARIZONA 85040

RECEIVED JAN 18 2005

LABORATORY REPORT

Physical Properties of Soils and Aggregates

Client: WEEMINUCHE CONSTRUCTION AUTHORITY
ATTN: ARNOLD HAMPSON
P.O. BOX AA
TOWAOC, CO 81334

Project No. 041442TF
Lab No. 184138
Report Date: 01-12-05

Project: US 191 - Devils Canyon
Location: Blanding, Utah
Material: #57 Aggregate — Sampled By: S&A — Date: Dec-04
Source: Native — Submitted By: D. Burton — Date: Dec-04
Supplier: Weeminuche — Authorized By: Client — Date: Dec-04
Sample Location: Stockpiles

SIEVE ANALYSIS - AASHTO T 27, & T11

Sieve Size	Cumulative % Passing	Specification Limits
3"	100	
2"	100	
1½"	100	100
1"	100	95-100
3/4"	97	
1/2"	39	25-60
3/8"	13	
1/4"	2	
#4	1	0-10
#8	1	
#10	1	
#16	1	
#30	1	
#40	1	
#50	1	
#100	1	
#200	0.6	0-1

Comments: *Aggregates considered dolorferous

ADDITIONAL TESTING

PHYSICAL PROPERTIES	TEST RESULT	SPECIFICATION REQUIREMENT
CLAY LUMPS AND FRIABLE PARTICLES; AASHTO T 112		
Total Clay Lumps and Friable Particles	0.2%	2.0% max.
LIGHTWEIGHT PIECES IN AGGREGATE; AASHTO T 113		
Coal & Lignite (<2.0 spg)	0.0%	0.5% max.
Chert (<2.4 spg)	0.6%	3.0% max.
SUM OF CLAYLUMPS/FRIABLE PARTS, & CHERT	0.8%	3.0% max.
MAGNESIUM SULFATE SOUNDNESS; AASHTO T 104		
Weighted Loss, Total Sample	2.2%	18% max.
SPECIFIC GRAVITY AND ABSORPTION; AASHTO T84		
Bulk O.D. Specific Gravity	2.631	
S.S.D. Specific Gravity	2.648	
Apparent Specific Gravity	2.677	
Absorption	0.66%	
L.A. ABRASION; AASHTO T 96		
% Loss - 100 Revolutions	6	
% Loss - 500 Revolutions	21	50% max.
UNIT WEIGHT & VOIDS IN AGGREGATE; AASHTO T 19		
Loose Unit Weight (pcf)	95.9	
POTENTIAL REACTIVITY (CHEMICAL METHOD); ASTM C289		
Alkaline Reactivity, R_c (mmol/L)	60*	
Dissolved Silica, S_c (mmol/L)	130*	

Laboratory test results reported herein apply only to the specific sample on which the test was run. The above services and report were performed pursuant to the terms and conditions of the agreement or proposal, if any, between SA and client. SA warrants that this work was performed under the appropriate standard of care, including the skill and judgement that is reasonably expected from similarly situated professionals. No other warranty, guaranty, or representation, either express or implied is included or intended.

Reviewed by:

Copies to: Addressee (1)

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 7	Revision No.: -	Contractor Submittal No.: 7
Specification Section(s): 02770	Date of Submittal Report: 4 August 2006	
Submittal Subject: Manufacturer Approval Letter		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 14:28:59 -07'00'

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Print Name/Sign Name		Gregory T. Corcoran, P.E	

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	7	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Geosynthetics Manufacturers Installation Approval Letter

Specification Identifier: Section 02770, 1.05, A.

Installer: COMANCO Environmental Corporation

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By:

GSE Lining Technology, Inc.

19103 Gundle Road
Houston, Texas 77073
800-435-2008
281-443-8564
Fax: 281-230-8650

IUC White Mesa Mill – Cell 4A Lining System

August 3, 2006

COMANCO Environmental Corporation
1571 Parkway Loop, Suite D
Tustin, CA 92780

CERTIFICATION

This letter is to certify that **COMANCO Environmental Corporation** has been provided with a copy of GSE's proprietary product manual containing the data sheets of all GSE's products for this project, and the GSE Field Installation Quality Assurance Manual.

With the information provided by GSE referenced herein, and the use of qualified technical field personnel, **COMANCO Environmental Corporation** can undertake installations of GSE's products. GSE's Technical Department representatives are available to respond to questions on specifications and installation techniques.

Regards,

David Leggett
V.P., Dealer Sales

DL:cdb

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Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 8	Revision No.: -	Contractor Submittal No.: 8
Specification Section(s): 02770	Date of Submittal Report: 4 August 2006	
Submittal Subject: Completed Projects		

Notations:

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Date: 2006.08.21 14:32:33 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

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SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 8

Submitted:

No. of Copies: 2

[X]	Original Submittal
[ ]	Resubmittal
[ ]	Supplement
[ ]	Information Only

Submittal Description: List of Completed Projects

Specification Identifier: Section 02770, 1.06, C., 5.

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By:

SUMMARY OF COMPLETED PROJECTS

U.S.B.R – RUBY GULCH – GILT EDGE MINE PHASE II CLOSURE
OWNER: US Department of the Interior – Bureau of Reclamation – (303) 445-3296
LOCATION: Deadwood, South Dakota
DESCRIPTION: 65 acre closure over spent ore and waste rock; Agru Super Grip Net (80 mil LLDPE); 8oz Geotextile, Huesker D.S. 24 oz. Geocomposite.

PCS NITROGEN – LEACHATE SEPARATION DITCH LINING
OWNER: PCS Nitrogen – Geismar Plant - (225) 621-1659
LOCATION: Geismar, Louisiana
DESCRIPTION: 8,000 LF of 60 mil HDT separation ditch lining including geocomposite underdrain, and 8,000 lf of 8" HDPE collection pipe.

NORTHWEST CONTRACTORS – McCALL J-DITCH
OWNER: City of McCall – (208) 667-2899
LOCATION: McCall, Idaho
DESCRIPTION: Construction of a WWTP pond including 60 mil HDPE, Fabricated emergency 60 mil HDPE ladders, and pipe boot penetrations.

TECO POWER COMPANY
OWNER: TECO Power – (813) 641-0111
LOCATION: Apollo Beach, Florida
DESCRIPTION: Drying and grading of 17 acre stockpile of "coal combustion byproducts" and dredge sediment. Installation of 661,500 sf of 40 mil. Textured liner with geocomposite layer and slope stabilization net. Import and placement of over 100,000 yds of cover soil. Placed sod over entire 17-acre cap.

STEELFIELD ROAD LANDFILL
OWNER: Bay County Florida – (850) 784-4028
LOCATION: Panama City, Florida
DESCRIPTION: Construction of 7-acre landfill and new vertical turbine irrigation pump station. 60 mil textured liner, Geocomposite, and GCL

WEST PASCO COUNTY LANDFILL EXPANSION – CELLS A-3 & SW-2
OWNER: Pasco County Florida – (727) 856-0119
LOCATION: Spring Hill, Florida
DESCRIPTION: Construction of 12 acre Ash cell consisting of 60 mil textured, Tri-planar Geocomposite, Gundseal and GCL. Construction of 15 acre solid waste cell consisting of 60 mil textured, Tri-planar Geocomposite, Gundseal and GCL.

ZOLFO SPRINGS WWTP IMPROVEMENTS
OWNER: Town of Zolfo Springs – (863) 735-0405
LOCATION: Zolfo Springs, Florida
DESCRIPTION: Construction of two new holding ponds lined with 85,000 sf of 60-mil smooth liner and adjacent spray fields.

NEW RIVER REGIONAL LANDFILL
OWNER: New River Division of Solid Waste – (386) 431-1000
LOCATION: Raiford, Florida
DESCRIPTION: New construction of 4-acre bottom liner system with placement of

OKEECHOBEE LANDFILL CELLS 15 & 16
OWNER: WASTE MANAGEMENT, INC. – (863) 357-0111
LOCATION: Okeechobee, Florida
DESCRIPTION: Construction of 10-acre landfill sub base, with all related leachate collection piping.

SOUTH FLORIDA WATER MANAGEMENT DISTRICET – BYRD PROPERTY RESTORATION
OWNER: SFWMD
LOCATION: Okeechobee, Florida
DESCRIPTION: New construction and restoration of retention ponds, storm water piping, manholes and catch basins to reduce phosphorus discharge into Lake Okeechobee.

COOLING POND RECONSTRUCTION
OWNER: IMC/ AGRICO COMPANY – (863) 428-2500 – Wendell Hunt/Charlie Middleton
LOCATION: Mulberry, Florida
DESCRIPTION: Rerouting of an existing, unlined acid cooling pond via HDPE piping system and concrete out fall structures and construction of a new 53 acre lined cooling pond system.

NEW GYPSUM FIELD
OWNER: CF INDUSTRIES, INC. – (863) 533-0528 – Walt Wolverton
LOCATION: Plant City, Florida
DESCRIPTION: Construction of a 400 acre, double lined industrial waste containment system to store phosphogypsum

NEW MUNICIPAL SANITARY SOLID WASTE LANDFILL
OWNER: VOLUSIA COUNTY, FLORIDA – (386) 943-7889 – Pat McCormack
LOCATION: Deland, Florida
DESCRIPTION: Construction of a 66 acre, double lined waste containment system complete with dual layers of 60mil HDPE, triplanar geocomposite, biplanar geocomposite and 8000 LF of HDPE piping.

SARASOTA COUNTY CENTRAL LANDFILL
OWNER: SARASOTA COUNTY LANDFILL
LOCATION: Laurel, Florida
DESCRIPTION: Construction of a 75 acre geosynthetic lining system for a new landfill. The project included the placement of approximately three (3) million square feet of 60 mil high-density polyethylene (HDPE) liner, three (3) million square feet of triplanar geonet and three (3) million square feet of geotextile fabric.

DESOTO COUNTY LANDFILL ZONE 3
OWNER: DESOTO COUNTY LANDFILL – (863) 993-4826 – Billy Hines
LOCATION: Arcadia, Florida
DESCRIPTION: Construction of a new municipal solid waste landfill cell. The project included grading and excavation, placement of a six (6) inch clay base liner, a double lined geo-synthetic containment system consisting of two (2) layers of 60 mil HDPE geomembrane, two (2) layers of geocomposites, two (2) feet of protective sand cover and HDPE piping systems for leachate collection and leachate detection.

DESOTO COUNTY LANDFILL ZONE 1 CLOSURE
OWNER: DESOTO COUNTY LANDFILL – (863) 993-4826
LOCATION: Arcadia, Florida
DESCRIPTION: Closure of a municipal solid waste landfill cell. The project included the grading, excavation, placement of sand layers, gas vents and installation of a 40 mil linear low density polyethylene (LLDPE) liner, protective cover system placement and sodding.

GYPSUM STACK CLOSURE
OWNER: C. F. INDUSTRIES, INC. – (863) 533-3181- Lynne Vadelund
LOCATION: Bartow, Florida
DESCRIPTION: Construction of a 225 acre, 40 mil HDPE lining system to close a phosphogypsum stack.

ST. LUCIE COUNTY LEACHATE IMPOUNDMENT FACILITIES
OWNER: ST. LUCIE COUNTY BOARD OF COUNTY COMMISSIONERS
LOCATION: Fort Pierce, Florida
DESCRIPTION: COMANCO completed the earthwork, HDPE leachate collection and leak detection systems, electrical pumping systems and a state of the art liner system consisting of synthetic clay liner, double 60 mil HDPE liners, double geonet layers and double geotextile layers in addition to a drainage/protective cover system.

GYPSUM STACK CLOSURE
OWNER: CARGILL FERTILIZER, INC. – (863) 534-9601 – Ralph Remmert
LOCATION: Riverview, Florida
DESCRIPTION: Construction of a 100 acre closure system including 4.4 million square feet of HDPE liner and 4.4 million square feet geotextile fabric.

SILICA POND EXTENSION
OWNER: ALCOA INDUSTRIAL CHEMICALS – (941) 285-8101
LOCATION: Fort Meade, Florida
DESCRIPTION: Earthwork and HDPE liner installation to raise the perimeter dike surrounding the active silica holding pond.

GATX PUMP STATION
OWNER: GATX TERMINALS CORPORATION – (813) 248-2148
LOCATION: Tampa & Orlando, Florida
DESCRIPTION: Design and construction of foundation and drainage systems for multi-unit pumping station at each terminus of CFPL's $168 million central Florida pipeline project. The project included pile driving, earthwork, concrete placement and the installation of 24" RCP pipe

POLK POWER STATION SLAG STORAGE CELL
OWNER: TAMPA ELECTRIC COMPANY
LOCATION: Fort Meade, Florida
DESCRIPTION: Complete construction of a slag storage cell to receive slag byproduct from the 240 mega watt Polk Power Station. The project included earthwork, installation of synthetic clay liner, double 60 mil HDPE liners, double geonet layers, geotextile, drainage/protective cover material and 24" and 18" HDPE piping systems for discharge flumes, leak detection and leachate collection systems.

MISSISSIPPI POWER
OWNER: MISSISSIPPI POWER CORPORATION – (601) 474-3029
LOCATION: Pascagoula, Mississippi
DESCRIPTION: Installation of a 1,000,000 SF 60 mil HDPE flyash waste containment system.

CITGO PETROLEUM SECONDARY CONTAINMENT
OWNER: CITGO PETROLEUM – (813) 247-3429 – Terry Fluke
LOCATION: Port of Tampa, Florida
DESCRIPTION: Construction of three (3) tank foundations including earthwork foundation construction, concrete ringwalls and a secondary containment system including 75,000 SF of 60 mil HDPE, 125,000 SF of 80 mil HDPE, and 5,400 LF of polyloc.

GEORGIA POWER
OWNER: GEORGIA POWER CORPORATION
LOCATION: Newnan, GA
DESCRIPTION: Construction of an industrial waste containment system including the installation of 372,000 SF of smooth 40 mil HDPE and 186,000 SF of textured 40 mil HDPE.

EASTPORT WATER TREATMENT PLANT
OWNER: CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS – (813) 625-4164
LOCATION: Port Charlotte, FL
DESCRIPTION: Construction of an effluent holding pond including the placement of over 1.6 million square feet of 60 mil HDPE liner

GYPSUM STACK PERIPHERAL DRAIN AT ELEVATION 45
OWNER: CARGILL FERTILIZER, INC. – (863) 534-9601 – Ralph Remmert
LOCATION: Riverview, FL
DESCRIPTION: The project involved trench excavation and backfill, the installation of 12,500 LF of perforated HDPE pipe and approximately 2,500 CY of rock. The project also involved the placement of 25,000 SF of 10 oz. geotextile and the placement and connection of nine (9) manholes.

U.S. AGRI-CHEMICALS RELIEF DRAIN
OWNER: U.S. AGRI-CHEMICALS CORPORATION – (863) 285-8121 – Brian Murphy
LOCATION: Fort Meade, FL
DESCRIPTION: Installation of 48" HDPE pipe alongside new gypsum field.

COAL STORAGE RUNOFF FACILITIES
OWNER: U.S. GENERATING
LOCATION: Jacksonville, FL
DESCRIPTION: Installation of 303,000 SF of 60 mil HDPE; 68,000 SF of geotextile; and 68,000 SF of fabric formed concrete in three (3) storage ponds used to divert coal storage runoff away from the St. Johns River.

DESOTO CITY CELL #3
OWNER: HIGHLANDS COUNTY BOARD OF COUNT COMMISSIONERS
LOCATION: Sebring , FL
DESCRIPTION: Construction of a new landfill cell including installation of 550,000 SF of 60 mil HDPE liner; 18,000 SF of geonet; and 18,000 SF of 8 oz., geotextile to prepare a new landfill cell.

PAPER PLANT CONSTRUCTION
OWNER: STERLING PULP CHEMICALS, LTD.
LOCATION: Valdosta, GA
DESCRIPTION: Construction of an 80 mil HDPE secondary containment system around numerous tanks and environmentally sensitive locations throughout the new paper plant.

CARGILL TANK CONTAINMENT
OWNER: CARGILL FERTILIZER, INC. – (863) 534-9601 – Ralph Remmert
LOCATION: Bartow, FL
DESCRIPTION: Secondary containment of four (4) sulfuric acid tanks using 75,000 SF of 40 mil HDPE liner and 2,000 CY of concrete in addition to preparatory excavation and backfill.

CARGILL TOE DRAIN
OWNER: CARGILL FERTILIZER, INC. – (863) 534-9601 – Ralph Remmert
LOCATION: Bartow, FL
DESCRIPTION: Installation of 2,000 LF of 18" perforated HDPE pipe encased in granite rock wrapped with a non-woven geotextile

CARGILL RETENTION POND
OWNER: CARGILL FERTILIZER, INC. – (863) 534-9601 – Ralph Remmert
LOCATION: Tampa, FL
DESCRIPTION: Construction of a storm water retention pond, including excavation, placement of concrete structures and HDPE liner installation

STORAGE TANK SECONDARY CONTAINMENT
OWNER: TAMPA ELECTRIC COMPANY
LOCATION: Hardee County, FL
DESCRIPTION: HDPE liner placement and placement of drainage/protective layer for secondary containment of storage tanks at the Hardee Power Station.

COOLING POND
OWNER: C.F. INDUSTRIES, INC. – (863) 533-0528 – Walt Wolverton
LOCATION: Plant City, FL
DESCRIPTION: Construction of 80 acre retention pond for cooling of acid solution. The project included the installation of approximately 3.5 million square feet of 60 mil smooth and textured HDPE liner.

STORM DRAINAGE SYSTEM
OWNER: C.F. INDUSTRIES, INC. – (863) 533-3181 – Lynne Vadelund
LOCATION: Bartow, FL
DESCRIPTION: Installation of a 24" HDPE piping system to properly divert storm water run off from a phosphogypsum storage field.

GYPSUM STACK EXPANSION
OWNER: FARMLAND HYDRO L.P. – (863) 533-1141 – Robert Pyburn
LOCATION: Bartow, Florida
DESCRIPTION: 300 acre expansion of New Gypsum Stack
Installation of 14,000,000 square feet of 60 Mil HDPE Liner
Installation of 2,000,000 square feet of Geo-net Composite
Installation of 1,400,000 square feet of 8 oz. Nonwoven Geotextile
Installation of 65,000 linear feet of various HDPE Pipe from 6" to 24"

GYPSUM STACK VERTICAL EXPANSION
OWNER: CARGILL FERTILIZER, INC. – (863) 534-9601 – Ralph Remmert
LOCATION: Bartow, Florida
DESCRIPTION: Vertical expansion of South Gypsum Stack Phase 1A and Phase 1B
Installation of 5,400,000 square feet of 60 Mil HDPE textured Liner
Installation of 4,500,000 square feet of 60 mil smooth HDPE Liner

OKEECHOBEE LANDFILL 20 ACRE CLOSURE
OWNER: WASTE MANAGEMENT – (863) 357-0111 – Matt Orr/District Manager
LOCATION: Okeechobee, Florida
DESRIPTION: Construct Closure, 80,000 cuyd protective cover soil
900 LF 18 " HDPE Pipe
3,000 Sq Ft 8" point mat

OKEECHOBEE LANDFILL CELLS 11 & 12 – 12 ACRES

OWNER: WASTE MANAGEMENT – (863) 357-0111 – Matt Orr/District Manager
LOCATION: Okeechobee, Florida
DESCRIPTION: Construct Landfill Sub base 220,000 Cu. Yds.
Installation of 600 LF 10" diameter HDPE Pipe
Installation of 2,300 LF 6" diameter HDPE Pipe

OKEECHOBEE LANDFILL SOUTHWEST SWAMP WEIR

OWNER: WASTE MANAGEMENT – (863) 357-0111 – Matt Orr/District Manager
LOCATIONS: Okeechobee, Florida
DESCRIPTION: Construct concrete weir structure 70 cu. Yds.

NAPLES LANDFILL

OWNER: WASTE MANAGEMENT – (941) 455-8062 – John Wong
LOCATION: Naples, Florida
DESCRIPTION: Install 54 acres 40 LLDPE and 60 Mil HDPE
Subbase preparation, down chutes
102,000 cu. Yd. Protective cover

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 9	Revision No.: -	Contractor Submittal No.: 9
Specification Section(s): 02770	Date of Submittal Report: 4 August 2006	
Submittal Subject: Resumes		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 14:36:12 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 9 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Resumes of Key Personnel

Specification Identifier: Section 02770, 1.06, C., 6. & 7.

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

Brian K. Libby

38649 Five Oak Lane
Zephyrhills, FL 33540
Home (813)783-9044
redsox919@yahoo.com

EMPLOYMENT OBJECTIVE

- Seeking a position within your company utilizing my ability to develop and maintain successful client relationships, skills and education to the benefit of my employer, and where there is an opportunity for personal enrichment.

HIGHLIGHTS OF EXPERIENCE

- Computer skills: MS word, excel, Windows, and Outlook.
- Adaptable quick learner, detail-oriented and always seeking to enhance skills through increased knowledge
- Heavy Equipment: Backhoes, pettibones (cranes), forklifts, ground support equipment, various trucks, sats loaders, excavators, bull dozers, etc.
- Blueprint reading: Wiring schematics, rebar drawings, & some structural and mechanical.
- Some experience working with ADA Projects.
- Vast knowledge and experience with repairing, and maintaining, military weapon systems.
- Safety team member responsible for compliance of current directives and policies.

PROFESSIONAL EXPERIENCE

1. CHI Engineering Services Inc., Portsmouth, New Hampshire Project Manager/Coordinator, 12/02 - 1/05 LPG Schedule
- Performed duties as a Field / Environmental Supervisor / Manager for restoration work. Managing multiple projects simultaneously. Providing all necessary record keeping and job scheduling with vendors and clients. To include Quality Control and State Agency paperwork. Field Inspector for upgrades to Pipeline Gate Stations, and most recently gathering vendor pricing for several large project proposals.

2. Methuen Construction Company Inc., Salem, New Hampshire Project Manager/Engineer, 2001 -2002 Waste water -
- Directly responsible for project coordination by maintaining job records. work schedules. quality control issues, job safety, with constant communication both written and verbal with supervisors. Able to make independent decisions in the field, and dealings with vendors and the general public. Deal with transmittals, submittals, O & M Manuals start up, and training schedules. Assist in the Estimating Department and during the bid process. Active Safety Team Member.

3. Fairchild Semiconductor Co. Inc., South Portland, Maine Photolithography Technician, 1999- 2001
- Responsible for implementing new design and experimental procedures to logic, analog, and discrete chips. Maintained and repaired equipment as needed to support the mission of the company. Participated in Work Cell Groups to better the work area ergonomically, and efficiently,

4. Prime Tanning Inc., North Berwick, Maine Hazardous Material Handler, 1993- 1995
- Removed and disposed of hazardous materials using specialized equipment, forklifts, small cranes, and pumping

trucks. All in accordance with company and EPA guidelines.

5. United States Marine Corps, Jacksonville; North Carolina Avionics / Ordnance Technician; 1988- 1993

- Honorable Discharge 1993
- Directly responsible for prioritizing, scheduling and performing maintenance and repairs on air frames, power plants, i.e. turbines, rotor heads, etc. to ensure smooth efficient operation.
- Designated Quality Assurance Representative, assigned with inspection approval/disapproval authority on work rendered to aircraft. Demonstrated leadership capabilities overseeing crew of 5-12 personnel performing job assignments.

EDUCATION

- University of New Hampshire, Durham, New Hampshire B.S., Forestry, 1998
- (Concentration: Environmental Engineering)
- University of New Hampshire, Durham, New Hampshire *A.A.*, Associate in Arts, 1996
- (Concentration: Civil Engineering)
- Sanford High School, Sanford, Maine H.S., Diploma, 1987

SUMMARY OF QUALIFICATIONS

- Self-motivated, hard working and intelligent professional with the requisite work ethic, educational background and supporting skills.
- Dedicated to performing job duties to produce work of the highest quality standards. .
- Goal directed and detail oriented with strong organizational and planning skills, capable of establishing priorities and simultaneously monitoring multiple skills.
- Effective working independently and as a cooperative "team" member.

HONORS AND ACTIVITIES

- U.S. Navy Achievement Award -United States Marine Corps, 1991. For combat duty services in Somalia.
- Outstanding Combat Service Awards -United States Marine Corps, 1991. Received from both the United States & Saudi Arabia
- U.S. Marine Corps Citation -United States Marine Corps, 1991. For design development of a new efficient design for aircraft plate (chaff & flare) system which is now in use on military aircraft.
- Navy Achievement Award for Design & Development -United States Marine Corps, 1992. A secondary award for the design of the aircraft plate.
- Navy Accommodation with a Combat V - United States Marine Corps, 1991. For combat duty services in Iraq.

PROFESSIONAL ASSOCIATIONS

- Life Member -Disabled American Veterans, 1993
- Life Member -Non-Commissioned Officers Association, 1992.
- Life Member -VFW Post 9935, 1997
- Life Member -Sportsman's Alliance of Maine, 1997
- Volunteer for Salvation Army -SHARE Program, 1998

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Tustin, CA 92780
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Fax: (714) 259-3005

Projects Superintendent
Cesar Gonzalez

has 12 years and a minimum of 20,000,000 square feet of experience in the supervision, installation and seaming of a variety of synthetic liners and components in a wide range of industry applications. He has extensive experience in the on site supervision of safety, quality control, and all required documentation. In addition to his supervisory experience Cesar also has actual hands on installation experience which far exceed all of the requirements to be qualified as a Leadman, Quality Control Technician and Master Seamer. As the on site Comanco Superintendent he is also responsible for the direct, day to day, on site safety management of the crew.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
- ☒ XR-5
- ☒ Polypropylene
- ☒ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
- ☒ Batten Systems
- ☒ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
- ☒ Wastewater Treatment Ponds
- ☒ Potable Water Reservoirs
- ☒ Evaporation Ponds
- ☒ Leach Pads
- ☒ Process Ponds
- ☒ Tank Liners
- ☒ Cut Off Trench
- ☒ Methane Barriers
- ☒ Tank Farm
- ☒ Floating Covers
- ☐

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Projects Superintendent

Felipe Garrido

Felipe has 14 years of experience in the supervision of the installation and seaming of a variety of synthetic liners and components in a wide range of industry applications. He has extensive experience in the on site supervision of safety, quality control, and all required documentation. In addition to his supervisory experience Felipe also has actual hands on installation experience which far exceed all of the requirements to be qualified as a Leadman, Quality Control Technician and Master Seamer. As the on site Comanco Superintendent he is also responsible for the direct, day to day, on site safety management of the crew.

Felipe is fluent in both English and Spanish

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
- ☒ XR-5
- ☒ Polypropylene
- ☒ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
- ☒ Batten Systems
- ☒ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
- ☒ Wastewater Treatment Ponds
- ☒ Potable Water Reservoirs
- ☒ Evaporation Ponds
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- ☒ Tank Liners
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- ☒ Methane Barriers
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- ☒ Floating Covers
- ☐

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Projects Superintendent
Arnulfo Martinez

has 11 years and a minimum of 20,000,000 square feet of experience in the supervision, installation and seaming of a variety of synthetic liners and components in a wide range of industry applications. He has extensive experience in the on site supervision of safety, quality control, and all required documentation. In addition to his supervisory experience Arnulfo also has actual hands on installation experience which far exceed all of the requirements to be qualified as a Leadman, Quality Control Technician and Master Seamer. As the on site Comanco Superintendent he is also responsible for the direct, day to day, on site safety management of the crew.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
- ☒ XR-5
- ☒ Polypropylene
- ☒ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
- ☒ Batten Systems
- ☒ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
- ☒ Wastewater Treatment Ponds
- ☒ Potable Water Reservoirs
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- ☐

Project Superintendent

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Fortino Ayala

Fortino has 11 years of experience in the supervision of the installation and seaming of a variety of synthetic liners and components in a wide range of industry applications. He has extensive experience in the on site supervision of safety, quality control, and all required documentation. In addition to his supervisory experience Fortino also has actual hands on installation experience which far exceed all of the requirements to be qualified as a Leadman, Quality Control Technician and Master Seamer. As the on site COMANCO Superintendent he is also responsible for the direct, day to day, on site safety management of the crew.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☒ Polypropylene
- ☐ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
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Applications ☒

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Quality Control Technician

Francisco Guitierez

Francisco has 5 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with current field welding and installation testing and documentation requirements. He has experience and training for the execution of and documentation for required on site testing, QC and safety procedures. He is also qualified to assist in the training of geomembrane Welders, Installers, and QC Technicians.

5

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
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Quality Control Technician / Foreman

Constantino Perez

Constantino has 12 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with all currently utilized deployment techniques, installation and safety procedures. He has experience in on site crew management for the deployment, welding, and quality control testing for a variety of geosynthetics. He also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. Constantino also meets all the requirements to be classified as a Geomembrane Master Seamer and Quality Control Technician. He is also qualified to assist in the training of Geomembrane Welders, Installers, and QC Technicians.

Components Installed ☒

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- ☒ LLDPE (Textured and Smooth
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- ☒ Pipe Boots
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- ☒ HDPE Sumps
- ☐

Applications ☒

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Quality Control Technician

Alvaro Brito

Alvaro has 17 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with current field welding and installation testing and documentation requirements. He has experience and training for the execution of and documentation for required on site testing, QC and safety procedures. He is also qualified to assist in the training of geomembrane Welders, Installers, and QC Technicians.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☒ XR-5
- ☒ Polypropylene
- ☒ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
- ☒ Batten Systems
- ☒ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
- ☒ Wastewater Treatment Ponds
- ☒ Potable Water Reservoirs
- ☒ Evaporation Ponds
- ☒ Leach Pads
- ☒ Process Ponds
- ☒ Tank Liners
- ☒ Cut Off Trench
- ☐ Methane Barriers
- ☐ Tank Farm
- ☒ Floating Covers
- ☐

COMANCO
ENVIRONMENTAL
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Fax: (775) 324-7708

Tustin, CA
1571 Parkway Loop Suite D
Tustin, CA 92780
(714) 259-3000
Fax: (714) 259-3005

Quality Control Technician

Jorge Barrantes

Jorge has 5 years and a minimum of 10,000,000 square feet of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with current field welding and installation testing and documentation requirements. He has experience and training for the execution of and documentation for required on site testing, QC and safety procedures. He is also qualified to assist in the training of geomembrane Welders, Installers, and QC Technicians.

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- ☒ GCL
- ☒ Pipe Boots
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- ☐

Applications ☒

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Master Seamer

Aquileo Jarquin

Aquileo has 8 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Aquileo is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed ☒

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Applications ☒

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Master Seamer

Jose Lopez

Jose has 7 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Jose is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed ☒

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Applications ☒

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Geomembrane Welder

Alberto Fernandez

Albertol has 8 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Alberto is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
- ☐ XR-5
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- ☒ Geonets
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Applications ☒

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Master Seamer

Antonio Arellano

Antonio has 5 years, and a minimum of 5,000,000 Square Feet of experience in installation and seaming of a variety of synthetic liners and components. Antonio is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed ☒

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- ☒ LLDPE (Textured and Smooth
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Applications ☒

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Project Manager
Scott Harker

Scott has 6 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with current field welding and installation testing and documentation requirements. He has experience and training for the execution of and documentation for required on site testing, QC and safety procedures. He is also qualified to assist in the training of geomembrane Welders, Installers, and QC Technicians.

Scott also has 1 years experience of project administration, and project management.

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Applications ☒

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COMANCO
ENVIRONMENTAL CORPORATION

Jeryl Pryor
COMANCO Environmental Corporation

Present Professional Responsibility

COMANCO Environmental Corporation
Regional Manager – Liner Division
Reno, Nevada **2005 to Present**

- Responsible for the management and profitable growth in the Northwest United States, while enhancing operations and expanding the customer base.

Additional Responsibilities include:
- Maintaining Industry and Government Project Safety Compliance
- Short and Long Range Planning
- Personnel Development
- Resource Management & Planning (manpower, equipment, material, etc.)
- Public and Customer Relations
- Forecast revenue (sales), profitability, capital expenditures and personnel requirements
- Manage office support staff and field staff including Estimating, Submittals, Technical, Project Management, and Field Services.
- Responsible for strategic business planning for all regional construction operations.
- Initiate job cost control programs by standardizing operating parameters.

Previous Professional Experience

COMANCO Environmental Corporation
Division / Construction Manager - Liner Division
Tampa, Florida **1998 to 2005**

Managed and directed the project management and contract billings in the Southeastern Region of the U.S.

- Profit/loss responsibility for all liner division construction contracts, local (1998 – 2002)
- Profit/loss responsibility for liner division construction contracts, Southeast Region. (2002 – 2005)
- Responsible for monthly Work in Progress (WIP) reporting.
- Responsible for short and long range project planning, and projecting.
- Coordination, strategic planning, of resources, production, and profitability with COMANCO V.P's, and Managers throughout the Corporation.
- Assisted in the successful implementation and employee training, of /on COMANCO's current accounting software (Dexter +Chaney – Forefront)
- Implemented, Managed and Maintained the Liner Divisions projects schedule, and personnel requirements.
- Implemented / Standardized " Pre-Job Planning" meetings as a tool for improving safety, and profitability on all construction projects.
- Responsible for planning and staffing resources (personnel, and equipment) on all U.S. & International Liner projects.
- Managed office support staff and field staff including Estimating, Submittals, Technical, Project Management, and Field Services.
- Personnel Hiring, Development, and Training
- Integral part in successfully developing, and training new managers / supervisors during COMANCO's Rapid Growth. Grew from 50+/- to 300+- employees from 2002 to 2005, meanwhile maintaining profitability in the Corporation.

COMANCO Environmental Corporation

General Superintendent / Project Manager
Tampa, Florida **1995 to 1998**

- Profit/loss responsibility for construction projects.
- Managed field installation crews of 8-20 men on geomembrane liner installations in the Southeastern U.S.
- Management multiple field construction projects and superintendents simultaneously for applications that included hazardous/non-hazardous waste containment cells and closures, petrochemical tank primary and secondary containment membranes, potable water reservoir base liners, and industrial containment impoundments.
- Managed and trained several of COMANCO's current Project Superintendents and Project Managers from field technicians to their current positions.
- Prepared material and labor estimates for preparation of customer quotations. Reviewed plans and specifications and established cost to perform work.
- Responsible for monthly Work in Progress (WIP) reporting.
- Responsible for short and long range project planning, and projecting.

COMANCO Environmental Corporation

Field Superintendent
Tampa, Florida **1993 to 1995**

- Managed field installation crews of 8-20 men on geomembrane liner installations in the Southeastern U.S.
- Profit/loss responsibility for construction projects.
- Training and Developing Field Personnel

COMANCO Environmental Corporation

Field Technician / Foreman
Tampa Florida **1991 – 1993**

- Various duties included: Liner Technician, QA/QC, Equipment Operator, Concrete work / Form Carpentry, Foreman / Crew Leader

Professional Education, Associations, & Certifications

- Associated General Contractors of America Supervisory Training Program. Completed all 10 unit Courses.
- Member, IAGI (International Associate of Geosynthetic Installers)
- 40 Hour Hazardous Materials Training.
- Mine Safety and Health Administration Training (10 year Certificate Holder)
- Florida Phosphate Council Mine & Safety Training (14 year Certificate Holder)
- Confined Space, Excavation, Competent Person, First Aid training.
- Multiple Geosynthetics, and Project Management courses / seminars.

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Projects Superintendent

Jose Amparo Hernandez

Jose has 14 years of experience in the supervision of the installation and seaming of a variety of synthetic liners and components in a wide range of industry applications. He has extensive experience in the on site supervision of safety, quality control, and all required documentation. In addition to his supervisory experience Jose also has actual hands on installation experience which far exceed all of the requirements to be qualified as a Leadman, Quality Control Technician and Master Seamer. As the on site COMANCO Superintendent he is also responsible for the direct, day to day, on site safety management of the crew.

Jose is fluent in both the English and Spanish languages

Components Installed ☒

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- ☒ LLDPE (Textured and Smooth
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- ☒ XR-5
- ☒ Polypropylene
- ☒ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
- ☒ Batten Systems
- ☒ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
- ☒ Wastewater Treatment Ponds
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- ☒ Evaporation Ponds
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- ☒ Tank Liners
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MSHA Trainings - Current

COMANCO

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Quality Control Technician

Juan Cordoba

Juan has 5 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with current field welding and installation testing and documentation requirements. He has experience and training for the execution of and documentation for required on site testing, QC and safety procedures. He is also qualified to assist in the training of geomembrane Welders, Installers, and QC Technicians.

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Master Seamer/Leadman

Efren Olea

Efren has 12 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Efren is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
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- ☒ XR-5
- ☒ Polypropylene
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Applications ☒

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Geomembrane Welder

Jose Alfredo Luna

Jose has 5 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Jose is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
- ☐ XR-5
- ☒ Polypropylene
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Applications ☒

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Geomembrane Welder

Arnold Tavarez Cisneros

Arnold has 3 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Arnold is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
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Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
- ☒ Wastewater Treatment Ponds
- ☒ Potable Water Reservoirs
- ☐ Evaporation Ponds
- ☒ Leach Pads
- ☐ Process Ponds
- ☐ Tank Liners
- ☐ Cut Off Trench
- ☐ Methane Barriers
- ☐ Tank Farm
- ☒ Floating Covers
- ☐

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Geomembrane Welder

Hector Olea

Hector has 2 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Hector is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
- ☐ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☐ Pipe Boots
- ☐ Batten Systems
- ☐ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
- ☐ Wastewater Treatment Ponds
- ☐ Potable Water Reservoirs
- ☐ Evaporation Ponds
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Master Seamer

Javier Celaya

Javier has 14 years of experience in installation and seaming of a variety of synthetic liners and components. A Master Seamer qualification requires a minimum of five million square feet of actual hands on geomembrane welding experience. Javier is familiar with all currently utilized welding techniques, welder set up / maintenance, safety and installation procedures. He is also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. He is also qualified to assist in the training of Geomembrane Welders. Javier has installed at least 8,000,000 SF of HDPE Liner.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☒ Super Grip Drain Liner
- ☒ XR-5
- ☒ Polypropylene
- ☒ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
- ☒ Batten Systems
- ☒ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
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Forklift Operator

Carlos Garcia

Carlos has 12 years of experience in installation and seaming of a variety of synthetic liners and components. He is familiar with all currently utilized deployment techniques, installation and safety procedures. He has experience in on site crew management for the deployment, welding, and quality control testing for a variety of geosynthetics. He also familiar with and has experience with detail work including pipe boots, sumps, batten seals, and other miscellaneous appurtenances. Carlos also meets all the requirements to be classified as a Geomembrane Master Seamer and Quality Control Technician. He is also qualified to assist in the training of Geomembrane Welders, Installers, and QC Technicians.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☒ XR-5
- ☒ Polypropylene
- ☒ PVC
- ☒ Geotextiles
- ☒ Geonets
- ☒ Geocomposite
- ☒ GCL
- ☒ Pipe Boots
- ☒ Batten Systems
- ☒ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☒ Landfill Caps
- ☒ Leachate Ponds
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Geosynthetics Installer

Alberto Ortiz

Alberto has 4 months of experience in installation of a variety of geosynthetic liners and components. In addition to his deployment duties, he is in task training to set-up and operate equipment to include the following machines under direct supervision: Vacuum box, hand held hot air, and sewing. As part of his ongoing task training he is allowed to operate the wedge welder, extrusion welder, and air testing equipment under the direct supervision of a Comanco Superintendent, Master Seamer, or Quality Control Technician. He is familiar with all currently utilized safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☐ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
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Applications ☒

- ☒ Landfill Cells
- ☐ Landfill Caps
- ☒ Leachate Ponds
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Geosynthetics Installer

Jose Sarat

Jose has 4 months of experience in installation of a variety of geosynthetic liners and components. In addition to his deployment duties, he is in task training to set-up and operate equipment to include the following machines under direct supervision: Vacuum box, hand held hot air, and sewing. As part of his ongoing task training he is allowed to operate the wedge welder, extrusion welder, and air testing equipment under the direct supervision of a Comanco Superintendent, Master Seamer, or Quality Control Technician. He is familiar with all currently utilized safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☐ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
- ☐ PVC
- ☒ Geotextiles
- ☐ Geonets
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Applications ☒

- ☒ Landfill Cells
- ☐ Landfill Caps
- ☒ Leachate Ponds
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Geosynthetics Installer

Renato Ayala

Renato has 6 months of experience in installation of a variety of geosynthetic liners and components. In addition to his deployment duties, he is in task training to set-up and operate equipment to include the following machines under direct supervision: Vacuum box, hand held hot air, and sewing. As part of his ongoing task training he is allowed to operate the wedge welder, extrusion welder, and air testing equipment under the direct supervision of a Comanco Superintendent, Master Seamer, or Quality Control Technician. He is familiar with all currently utilized safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☐ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
- ☐ PVC
- ☒ Geotextiles
- ☐ Geonets
- ☒ Geocomposite
- ☐ GCL
- ☐ Pipe Boots
- ☐ Batten Systems
- ☐ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
- ☐ Landfill Caps
- ☐ Leachate Ponds
- ☐ Wastewater Treatment Ponds
- ☐ Potable Water Reservoirs
- ☐ Evaporation Ponds
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Geomembrane Welder

Renato Barrientos

Renato has 2 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Renato is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☒ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
- ☐ PVC
- ☒ Geotextiles
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Applications ☒

- ☒ Landfill Cells
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- ☒ Leachate Ponds
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Geomembrane Welder

Daniel Celaya Salinas

Daniel has 1 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Daniel is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☐ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
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Applications ☒

- ☒ Landfill Cells
- ☐ Landfill Caps
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Geomembrane Welder

Gerardo Guevara Mendoza

Gerardo has 1 years of experience in installation and seaming of a variety of synthetic liners and components. A Geomembrane Welder qualification requires a minimum of one million square feet of actual hands on geomembrane welding experience. Gerardo is qualified to set-up and operate seaming equipment to include the following machines: hot wedge, hot air, extrusion, and sewing. He is familiar with all currently utilized welding techniques, installation, and safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☐ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
- ☐ PVC
- ☒ Geotextiles
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Applications ☒

- ☒ Landfill Cells
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Geosynthetics Installer

Mario Guevara Mendoza

Mario has 5 months of experience in installation of a variety of geosynthetic liners and components. In addition to his deployment duties, he is in task training to set-up and operate equipment to include the following machines under direct supervision: Vacuum box, hand held hot air, and sewing. As part of his ongoing task training he is allowed to operate the wedge welder, extrusion welder, and air testing equipment under the direct supervision of a Comanco Superintendent, Master Seamer, or Quality Control Technician. He is familiar with all currently utilized safety procedures.

Components Installed ☒

- ☒ HDPE (Textured and Smooth)
- ☐ LLDPE (Textured and Smooth
- ☐ Super Grip Drain Liner
- ☐ XR-5
- ☐ Polypropylene
- ☐ PVC
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- ☐ HDPE Sumps
- ☐

Applications ☒

- ☒ Landfill Cells
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- ☒ Leachate Ponds
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GEOSYNTEC CONSULTANTS

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SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 10	Revision No.: -	Contractor Submittal No.: 10
Specification Section(s): 02771	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geotextile		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 14:54:18 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	10	☒	Original Submittal	☐	Supplement
Submitted:					
No. of Copies:	2	☐	Resubmittal	☐	Information Only

Submittal Description: Geotextile Properties and Sample

Specification Identifier: Section 02771, 1.04, A., 1.&2.

Supplier: SKAPS

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

☐	Code 1 - Approved	☐	Code 4 - Approved As Noted, Resubmit
☐	Code 2 - Approved As Noted	☐	Code 5 - Not Approved
☐	Code 3 - Approved As Noted, Confirm	☐	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☒ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

Sales Office:
Engineered Synthetic Products, Inc.
Tel (770) 564-1857
Fax (770) 564-1818
www.espgeosynthetics.com

Geotextile Product Description Sheet

SKAPS GE-116
Nonwoven Geotextile

SKAPS GE-116 is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. SKAPS GE-116 resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. Polypropylene is stable within a pH range of 2 to 13. SKAPS GE-116 conforms to the physical property values listed below:

PROPERTY	TEST METHOD	UNIT	M.A.R.V. (Minimum Average Roll Value)
Weight	ASTM D 5261	oz/yd^2 (g/m^2)	16.0 (542)
Grab Tensile	ASTM D 4632	lbs (kN)	425(1.89)
Grab Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	lbs (kN)	150(0.667)
Thickness*	ASTM D 5199	mils (mm)	175(4.45)
Puncture Resistance	ASTM D 4833	lbs (kN)	240 (1.07)
Permittivity*	ASTM D 4491	sec^{-1}	0.57
Permeability*	ASTM D 4491	cm/sec	0.25
Water Flow*	ASTM D 4491	gpm/ft^2(l/min/m^2)	45 (1833)
AOS	ASTM D 4751	US Sieve (mm)	100 (0.150)
UV Resistance	ASTM D 4355	%/hrs	70/500

PACKAGING	
Roll Dimensions (W x L) – ft	15 x 360
Square Yards Per Roll	600
Estimated Roll Weight – lbs	620

* At the time of manufacturing. Handling may change these properties.

This information is provided for reference purposes only and is not intended as a warranty or guarantee. SKAPS assumes no liability in connection with the use of this information.

SKAPS Industries,
316 S. Holland Dr., Pendergrass, GA 30567,
Phone:(706)-693-3440, Fax(706)-693-3450,
www.skaps.com

MADE IN USA!

12/1/03

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SUBMITTAL COVER SHEET

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ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 11	Revision No.: -	Contractor Submittal No.: 11
Specification Section(s): 02772		Date of Submittal Report: 4 August 2006
Submittal Subject: Geosynthetic Clay Liner		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 14:57:18 -07'00'

Prepared by Print Name/Sign Name	**Date**
Engineer-of-Record Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 11 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: GCL Properties and Sample

Specification Identifier: Section 02771, 1.04, A., 1.&2.

Supplier: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved	[ ] Code 4 - Approved As Noted, Resubmit
[ ] Code 2 - Approved As Noted	[ ] Code 5 - Not Approved
[ ] Code 3 - Approved As Noted, Confirm	[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

CETCO® LINING TECHNOLOGIES

Certified Properties

BENTOMAT® ST CERTIFIED PROPERTIES

MATERIAL PROPERTY	TEST METHOD	TEST FREQUENCY $ft^2(m^2)$	REQUIRED VALUES
Bentonite Swell Index[1]	ASTM D 5890	1 per 50 tonnes	24 ml/2g min.
Bentonite Fluid Loss[1]	ASTM D 5891	1 per 50 tonnes	18 ml max.
Bentonite Mass/Area[2]	ASTM D 5993	40,000 ft^2 (4,000 m^2)	0.75 lb/ft^2 (3.6 kg/m^2) min
GCL Grab Strength[3]	ASTM D 4632 ASTM D 6768	200,000 ft^2 (20,000 m^2)	90 lbs (400 N) MARV 22.5 lbs/in (40 N/cm) MARV
GCL Peel Strength[3]	ASTM D 4632 ASTM D 6496	40,000 ft^2 (4,000 m^2)	15 lbs (65 N) min 2.5 lbs/in (4.4 N/cm) min
GCL Index Flux[4]	ASTM D 5887	Weekly	1 x 10^{-8} m^3/m^2/sec max
GCL Hydraulic Conductivity[4]	ASTM D 5887	Weekly	5 x 10^{-9} cm/sec max
GCL Hydrated Internal Shear Strength[5]	ASTM D 5321 ASTM D 6243	Periodic	500 psf (24 kPa) typ @ 200 psf 6,500 psf (311 kPa) typ @ 10,800 psf

Bentomat ST is a reinforced GCL consisting of a layer of sodium bentonite between a woven and a nonwoven geotextiles, which are needlepunched together.

Notes

[1] Bentonite property tests performed at a bentonite processing facility before shipment to CETCO's GCL production facilities.

[2] Bentonite mass/area reported at 0 percent moisture content.

[3] All tensile strength and peel strength testing is performed in the machine direction using 4 inch grips per modified ASTM D 4632. Results are reported as minimum average roll values unless otherwise indicated. Upon request, tensile strength can be reported per ASTM D 6768 and peel strength can be reported per ASTM D 6496.

[4] Index flux and permeability testing with deaired distilled/deionized water at 80 psi (551kPa) cell pressure, 77 psi (531 kPa) headwater pressure and 75 psi (517 kPa) tailwater pressure. Reported value is equivalent to 925 gal/acre/day. This flux value is equivalent to a permeability of $5x10^{-9}$ cm/sec for typical GCL thickness. Actual flux values vary with field condition pressures. The last 20 weekly values prior the end of the production date of the supplied GCL may be provided.

[5] Peak values measured at 200 psf (10 kPa) and 10,800 psf (517 kPa) normal stress for a specimen hydrated for 48 hours. Site-specific materials, GCL products, and test conditions must be used to verify internal and interface strength of the proposed design.

CETCO has developed an edge enhancement system that eliminates the need to use additional granular sodium bentonite within the overlap area of the seams. We call this edge enhancement, SuperGroove™, and it comes standard on both longitudinal edges of Bentomat® ST. It should be noted that SuperGroove™ does not appear on the end-of-roll overlaps and recommend the continued use of supplemental bentonite for all end-of-roll seams.

CETCO® LINING TECHNOLOGIES

1500 West Shure Drive Arlington Heights, IL 60004 USA 800.527.9948 Fax 847.577.5571
For the most up-to-date product information please visit our website, www.cetco.com
A wholly owned subsidiary of AMCOL International Corporation

The information and data contained herein are believed to be accurate and reliable, CETCO make no warranty of any kind and accepts no responsibility for the results obtained through application of this information.

Revised 09/04
TR 401

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 12	Revision No.: -	Contractor Submittal No.: 12
Specification Section(s): 02773	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geonet		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks: HDPE Geonet 330 – Skaps Transnet

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:04:46 -07'00'

Prepared by Print Name/Sign Name	**Date**
Engineer-of-Record Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	12	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Geonet Propertie & Sample

Specification Identifier: Section 027773, 1.05, A., 1.& 2.

Supplier: SKAPS

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: [signature]

SKAPS Industries
571 Industrial Parkway
Commerce, GA 30529 (U.S.A.)
Phone (706) 336-7000 Fax (706) 336-7007
e-mail: info@skaps.com

SKAPS TRANSNET™ (TN)
HDPE GEONET 330

SKAPS TRANSNET™ geonet consists of SKAPS GeoNet made from HDPE resin.

Property	Test Method	Unit	Required Value	Qualifier
Geonet				
Mass per Unit Area	ASTM D 5261	lb/ft^2	0.3	Minimum
Thickness	ASTM D 5199	mil.	330±30	Range
Carbon Black	ASTM D 4218	%	2 to 3	Range
Tensile Strength	ASTM D 5035	lb/in	100	Minimum
Melt Flow	ASTM D 1238[3]	g/10 min.	1	Maximum
Density	ASTM D 1505	g/cm^3	0.94	Minimum
Transmissivity[1]	ASTM D 4716	$m^2/sec.$	$3.5x10^{-3}$	MARV[2]

Notes:
1. Transmissivity measured using water at 21 ± 2°C (70 ± 4°F) with a gradient of 1.0 and a confining pressure of 15000 psf between stainless steel plates after 15 minutes. Values may vary between individual labs.
2. MARV is statistically defined as mean minus two standard deviations and it is the value which is exceeded by 97.5% of all the test data.
3. Condition 190/2.16

This information is provided for reference pruposes only and is not intended as a warranty or guarantee. SKAPS assumes no liability in connection with the use of this information.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor	**Date:** 1 March 2007	**Job No.:** SC-0349-02
ADDRESS:	Comanco Environmental Corporation	**Project Name**	
	1135 Terminal Way, Suite 204A	International Uranium (USA) Corporation	
	Reno, Nevada 89502	White Mesa Mill	
		Cell 4A	

Submittal I.D. No.: 13	Revision No.: -	Contractor Submittal No.: 13
Specification Section(s): 2770	Date of Submittal Report: 1 March 2007	
Submittal Subject: Proposed Panel Layouts Primary & Secondary Geomembranes		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Meghan Lithgow	3/2/07	Gregory T. Corcoran, P.E	3/2/07
Prepared by	**Date**	**Engineer-of-Record**	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 13 [X] Original Submittal [ ] Supplement

Submitted:

No. of Copies: 2 [ ] Resubmittal [ ] Information Only

Submittal Description: Proposed Panel Layouts Primary & Secondary Geomembranes

Specification Identifier: Section 02770, 1.06, C.1.

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

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[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
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SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 15	Revision No.: -	Contractor Submittal No.: 15
Specification Section(s): 02770	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geomembrane Installation Warranty		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:11:05 -07'00'

Prepared by Print Name/Sign Name	**Date**
Engineer-of-Record Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 15 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Sample Geosynthetics Liner Installation Warranty

Specification Identifier: Section 02770, 1.05, B.

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
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Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS
[ ] REJECTED NOTED

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

COMANCO®
ENVIRONMENTAL CORPORATION

SAMPLE LIMITED WARRANTY

PROJECT: **IUC White Mesa – Cell 4A**
LOCATION: **Blanding Utah**
DESCRIPTION: **HDPE LINER SYSTEM**

OWNER: **International Uranium, Corp.**
CONTRACT AMOUNT: **TBD**
COMPLETION DATE: **TBD**

COMANCO ENVIRONMENTAL CORPORATION ("COMANCO"), subject to the terms and conditions set forth below, warrants the above referenced installation shall be installed free from defects in workmanship for a period of one (1) year from the date the installation is completed. This LIMITED WARRANTY extends only to the proper installation of the lining system and does not include damages or defects in the installation caused by entities other than COMANCO, or resulting from Acts of God, or casualty, or catastrophe, including but not limited to, earthquakes, fire, floods, hail, tornados, hurricanes, tropical storms, gale force winds, other events of force majeure or vandalism. Further, this LIMITED WARRANTY does not include damages or defects in the installation resulting from exposure to harmful chemicals, abuse by machinery, equipment or people, excessive pressures or stresses from any source, subsurface or overburdened soil conditions, total or differential soil settlements, or any other cause not within COMANCO's control.

The extent of COMANCO's liability for breach of this LIMITED WARRANTY shall be limited to repairing or replacing the defective installation workmanship that will result in providing the OWNER with the pro-rated performance remaining under the original period of this LIMITED WARRANTY. COMANCO shall have the right to inspect and determine the cause of any alleged defect in the installation and to take appropriate steps to repair or replace the installation workmanship if a defect exists and is within the terms of this LIMITED WARRANTY.

This LIMITED WARRANTY will not be effective unless COMANCO receives written notice, by certified mail, to the PRESIDENT of COMANCO within ninety (90) days after the alleged defect is first discovered, or should have been discovered by the OWNER. Should the required notice not be given, the defect and all warranties shall be deemed to have been waived by OWNER, and OWNER shall have no right of recovery against COMANCO. In the event repairs or replacement are to be effected, said repairs and/or replacements shall not become due until the area subject to repair or replacement is made available to COMANCO in a clean, dry and unencumbered condition. This includes, but is not limited to, the repair or replacement area being free from all water, dirt, sludge, waste, residuals, liquids, or overlying material of any kind. In no event will COMANCO be liable for any costs expended by any person or entity other than COMANCO on any defective work with respect to the installation. Any repairs, replacements or alterations, which affect COMANCO's original installation work, will VOID this LIMITED WARRANTY.

Notwithstanding anything herein to the contrary, COMANCO's liability under this LIMITED WARRANTY shall in no event exceed the Contract Amount above state. Further, under no circumstances shall COMANCO be liable for any special, direct, indirect or consequential damages arising from loss of production or product, or any other losses, including losses due to personal injuries and product liability owing to the failure of the material or installation. OWNER shall be deemed to have waived its rights under this LIMITED WARRANTY with respect to any repairs, replacements or alterations made by OWNER without the express written consent of COMANCO.

COMANCO neither assumes nor authorizes any person other than an officer of COMANCO to assume for it any other or additional liability in connection with the installation. This LIMITED WARRANTY is extended to the property OWNER only. No rights against COMANCO will survive an attempted transfer or assignment to any party who does not own the property.

The LIMITED WARRANTY herein is given in lieu of all warranties of merchantability, fitness for purpose, or other warranties or representatives, expressed or implied. By accepting the installation, OWNER waives all other such possible warranties or representations, except those specifically given herein. Correction of nonconformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of COMANCO to OWNER, whether based on contract, negligence, strict liability or otherwise with respect to or arising out of the installation of the lining system. The parties hereto expressly agree that the sale hereunder is for commercial or industrial use only. Warranties, if any, concerning the materials incorporated into the lining system are covered, if at all, by separate warranties from the manufacturers or suppliers of such materials and are expressly excluded from the scope of this LIMITED WARRANTY, and OWNER acknowledges and agrees that COMANCO has made no warranties or representations to it concerning either the availability or sufficiency of any such warranties or representations from manufacturers or suppliers.

Except as expressly stated above, COMANCO makes no warranty of any kind and hereby disclaims all warranties with respect to the installation of the lining system, both expressed and implied, including, but not limited to, implied warranties or merchantability and fitness for a particular purpose.

No terms or conditions other than those stated herein and no agreement or understanding, oral or written, and no course of conduct or performance in any way purporting to modify this LIMITED WARRANTY or to waive COMANCO's rights hereunder shall be binding on COMANCO unless the same shall be clearly described in writing that refers to this LIMITED WARRANTY and is signed by an officer of COMANCO. Additional liabilities created by other documents shall have no force or effect upon this LIMITED WARRANTY or the installation performed by COMANCO. The laws of the STATE OF FLORIDA will govern the rights and duties of the parties under this LIMITED WARRANTY.

COMANCO ENVIRONMENTAL CORPORATION:

BY: **T. R. JOHNSON** TITLE: CHIEF EXECUTIVE OFFICER

SIGNED: _____ DATED: _____

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 16	Revision No.: -	Contractor Submittal No.: 16
Specification Section(s): 02770	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geomembrane Material Warranty		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:15:47 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 16 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Sample Geomembrane Material Warranty

Specification Identifier: Section 02770, 1.05, A.

Supplier: GSE Lining Technology

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By:

PRO-RATA LIMITED WARRANTY
FOR GSE LINING TECHNOLOGY, INC.
(GEOSYNTHETIC MANUFACTURED MATERIALS)
(U.S.A.)

Date:

Warranty No.:

SAMPLE

Purchaser Name:
Address:
City, State:
Product Type/Description:

Project No.:
Effective Date:
Project Name:
Project Address:

GSE Lining Technology, Inc. ("GSE") warrants each GSE product described above to be free from material manufacturing defects (as described by the contract's material specifications) and to be able to withstand normal weathering for a period of twenty (20) years from the above effective date for "normal use" in approved applications. This limited warranty does not include damages or defects in the GSE product resulting from acts of God, casualty or catastrophe, including but not limited to: earthquakes, floods, piercing hail, tornadoes or force majeure. The term "normal use" does not include, among other things, the exposure of GSE's product to harmful chemicals, abuse by machinery, equipment or people; improper site preparation or placement of cover materials; excessive pressures or stresses from any source. This warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson-Moss Warranty Act.

Should defects or premature loss of use within the scope of this warranty occur, GSE will, at its option, repair or replace the GSE product on a pro-rata basis at the current price in such manner as to charge the Purchaser only for that portion of the warranted life which has elapsed since the purchase of the product. GSE shall have the right to inspect and determine the cause of the alleged defect in the product and to take appropriate steps to repair or replace the product if a defect exists that is covered under this warranty. This limited warranty only extends to the geosynthetic portion of this product manufactured by GSE and does not apply to any third-party manufactured materials attached to GSE's product. The third-party portion of the product will carry the original manufacturer's warranty that will be passed through to the Purchaser.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail or courier, to the President of GSE, within ten (10) days of Purchaser becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have rights under this warranty. GSE shall not be obligated to perform any inspection or obligated to perform any repair or replacement under this warranty until the area is made available free from all obstructions, water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this warranty, Purchaser shall reimburse GSE for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the product as GSE determines to have violated the warranty provided herein. GSE shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to: damages for loss of production, lost profits, personal injury or property damage. GSE shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser to GSE's product, unless GSE specifically authorized, in writing, said repairs, replacements, modifications or alterations in advance. GSE liability under this warranty shall in no event exceed the replacement cost of the product sold to the Purchaser for the particular installation in which it failed.

GSE neither assumes nor authorizes any person other than an officer of GSE to assume for it any other or additional liability in connection with the GSE product made on the basis of the Limited Warranty. **GSE MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN HEREIN AND HEREBY DISCLAIMS ALL WARRANTIES, INCLUDING BOTH EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, AND BY ACCEPTING DELIVERY OF THE PRODUCT, PURCHASER WAIVES ALL OTHER POSSIBLE WARRANTIES. GSE's WARRANTY BECOMES AN OBLIGATION OF GSE TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT.**

This warranty is extended to the Purchaser and is non-transferable and non-assignable, i.e. there are no third-party beneficiaries to this warranty.

GSE LINING TECHNOLOGY, INC.

BY: _____
Authorized Representative

GEOMEMBRANE20p

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 17	Revision No.: -	Contractor Submittal No.: 17
Specification Section(s): 02772	Date of Submittal Report: 4 August 2006	
Submittal Subject: GCL Material Warranty		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:19:30 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 17 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Sample GCL Material Warranty

Specification Identifier: N/A

Supplier: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved	[ ] Code 4 - Approved As Noted, Resubmit
[ ] Code 2 - Approved As Noted	[ ] Code 5 - Not Approved
[ ] Code 3 - Approved As Noted, Confirm	[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☐ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

CETCO BENTOMAT® ST SAMPLE LIMITED WARRANTY

Project Name:	IUC White Mesa Mill
Location:	Blanding, UT
Installing Contractor:	
Certificate Number:	**N/A**
Effective Date:	**N/A**

LIMITED WARRANTY. Subject to the terms and conditions set forth below, Colloid Environmental Technologies Company ("CETCO") warrants to the owner of the construction project identified above (IUC White Mesa Mill) that the Bentomat® geosynthetic clay liner product supplied by CETCO (Bentomat ST) will at the time of delivery by CETCO be free from defects in material.

CLAIMS. The foregoing warranty shall remain in effect for a period of five (5) years from the "Effective Date" specified above. During the Warranty Period, CETCO will replace or, at its option refund the purchase price for, any Products failing to meet the foregoing warranty. Any claim by Owner for any claimed defect hereunder for any cause shall be deemed waived by Owner unless submitted to CETCO in writing within thirty (30) days from the date Owner discovers, or should have discovered any claimed breach.

EXCLUSIONS. CETCO shall have no liability for breach of the warranty caused by (A) accident, neglect, abuse or mishandling of the Product, including failure of Owner to use reasonable care in maintaining the Product; or (B) natural occurrences and acts of God, including without limitation, earthquakes, floods, piecing hail, tornadoes or explosions.

LIMITATIONS. THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CETCO does not authorize any person, including its representatives, to make any representations or warranty, condition or guaranty other than this warranty. Without limitation to the foregoing, any warranty concerning workmanship or non-CETCO materials provided by the installing contractor of the Product or any other subsequent contractor performing work on or to the Product is enforceable against such contractor, and is not provided by, and is not enforceable against, CETCO.

UNDER NO CIRCUMSTANCES SHALL CETCO BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES OR EXPENSES, WHETHER ARISING DIRECTLY OR INDIRECTLY FROM THE FAILURE OF ANY PRODUCT TO PERFORM AS WARRANTED OR FROM ANY OTHER CAUSE WHATSOEVER, WHETHER SUCH CLAIM IS BASED ON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER LEGAL THEORY. **CETCO's LIABILITY HEREUNDER SHALL IN ANY CASE BE LIMITED TO THE COST OF REPLACEMENT (IN THE FORM ORIGINALLY SHIPPED) OF DEFECTIVE PRODUCTS, OR, AT CETCO'S ELECTION, THE REPAYMENT OF OR CREDITING TO OWNER OF AN AMOUNT EQUAL TO THE PURCHASE PRICE OF SUCH PRODUCTS.** The foregoing states the sole and exclusive liability of CETCO and the sole and exclusive remedy of Owner.

MISCELLANEOUS. CETCO's failure at any time to enforce or rely upon any of the terms of conditions stated herein should not be construed to be a waiver of its rights hereunder. This warranty may not be assigned without the prior written approval of CETCO. This warranty shall be interpreted in accordance with the internal laws of the State of Illinois, without regard to the provisions concerning the conflicts of laws.

SAMPLE

CETCO

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 18	Revision No.: -	Contractor Submittal No.: 18
Specification Section(s): 02773	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geonet Material Warranty		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:22:18 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 18 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Sample Geonet Material Warranty

Specification Identifier: N/A

Supplier: SKAPS

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

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[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

SKAPS INDUSTRIES, INC.

571 Industrial Pkwy.
Commerce, GA 30529
Tel (706) 336-7000 Fax (706) 336-7007

July 18, 2006

TWENTY YEAR MATERIAL WARRANTY
IUC WHITE MESA
TRANSNET 330 GEONET; GE116 NONWOVEN

SKAPS Industries hereby warrants that, at the time of manufacture, all SKAPS Industries manufactured materials will conform to the respective SKAPS Industries published material specifications for such materials. Excluded from the warranty given herein shall be any damage to or failure of the material caused by, but not limited to: acts of God; casualty; catastrophe or severe weather conditions, such as earthquakes, tornadoes, hurricanes, floods, high winds, piercing hail, lightening and fire; the exposure of the material to sharp objects, chemicals, acids, gases or vapors, either known or unknown, or combinations, or specified by the manufacturer as being harmful thereto; physical abuse to the material caused by vandalism, sabotage, machinery, equipment, people and animals; damage to the material during the transportation, unloading, handling, storage or installation thereof by parties other than SKAPS Industries; excessive pressure or stress from any source, both above and below the material; after installation; subsidence or subgrade settlement; improper site preparation and engineering, and any use of the material which the manufacturer never intended. As used throughout this warranty, the term "sale" shall mean the date on which the material is shipped from SKAPS Industries manufacturing facility.

Should any significant deterioration or premature loss in use of the material occur during the term hereof which is believed to be covered by this warranty, then SKAPS Industries shall be given prompt written notice of the alleged claim within 30 days after such facts are first observed. Said notice shall be sent by registered or certified mail, return receipt requested, and addressed to SKAPS Industries, 571 Industrial Pkwy., Commerce, GA 30529, Attention: Contract Administrator.

The warranty described above is strictly limited to sales of the material for commercial or industrial uses only in accordance with SKAPS Industries published material specifications. Said warranty also is the sole and exclusive warranty given for such material and all other warranties; either expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, are hereby disclaimed. In no event shall SKAPS Industries be liable for any direct, indirect, incidental, specific or consequential damages of any kind or any loss or profits resulting from failure of the material or the breach of this warranty; it being further understood that should said warranty fail in its essential propose, and in that event only, SKAPS Industries liability hereunder shall in no event exceed the sales price of the material actually received from SKAPS by the Original Purchaser thereof.

Said warranty is not effective until all payments due to SKAPS Industries, for materials shipped, are paid in full.

Perry Vyas

Perry Vyas, President
SKAPS Industries

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor	**Date:** 21 August 2006	**Job No.:** SC-0349-02
ADDRESS:	Comanco Environmental Corporation	**Project Name**	
	1135 Terminal Way, Suite 204A	International Uranium (USA) Corporation	
	Reno, Nevada 89502	White Mesa Mill	
		Cell 4A	

Submittal I.D. No.: 19	Revision No.: -	Contractor Submittal No.: 19
Specification Section(s): 02773	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geotextile Material Warranty		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:25:01 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 19 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Sample Geotextile Material Warranty

Specification Identifier: N/A

Supplier: SKAPS

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
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Engineer Stamp or Remarks Area:

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

SKAPS INDUSTRIES, INC.

571 Industrial Pkwy.
Commerce, GA 30529
Tel (706) 336-7000 Fax (706) 336-7007

July 18, 2006

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IUC WHITE MESA
TRANSNET 330 GEONET; GE116 NONWOVEN

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Perry Vyas

Perry Vyas, President
SKAPS Industries

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SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 5 September 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 20	Revision No.: -	Contractor Submittal No.: 20
Specification Section(s): -	Date of Submittal Report: 4 August 2006	
Submittal Subject: Low Ground Pressure Equipment		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.09.05 08:33:50 -07'00'

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Jennifer Ferguson		Gregory T. Corcoran, P.E	

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 20 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Low Ground Pressure Equipment to be used on to of Geosynthetics

Specification Identifier: N/A

Installer: COMANCO Environmental Corporation

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
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[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

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GEOSYNTEC CONSULTANTS

Date: 9/5/06 By: _____

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IC-30

IC-30 Specifications

Basic Specs	
Payload	5,500 lbs.
Operating Weight	4,620 lbs.
Engine	
Make	Isuzu
Model	3LD1
Horsepower	32@2,800
Fuel Capacity	10.5 gals
Dimensions	
Total Length	10'4"
Total Width	5'
Total Height	7'4"
Travel Speed	
Low (mph)	3.75
High (mph)	6.87
Stability	
Gradeability (deg)	30
Side Stability (deg)	45
Crawler	
Crawler Span	5'0"
Track Width	12.5"
Ground Clearance	1'0"
Ground Pressure	
Empty	2.4 PSI
Loaded	5.3 PSI
Vessel Capacity	
Heaped	1.53 cu. yd.
Stuck	1.02 cu. yd.

Vessel Dimensions	
Length	5'7"
Width	4'7"
Height	1'2"
Vessel	
Height from ground	2'6"
Max Dumping Angle	60 (deg)
Dump Clearance	1'6"
Systems	
Travel Drive System	HST
Transmission System	2 Speed Manual Traction Motor
Brake System	HST Brake +Parking Brake

Return to Crawler page

PRODUCT LINE ATTACHMENTS CRAWLER CARRIERS FEATUR
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Crawler Carrier & Posi-Track Machine working on top of GCL, Deploying liner and Carrying Sand Bags

Crawler Carriers used to place rock in collection trench, on top of geosynthetics

Crawler Carrier being used to move sand bags on top of geosynthetics.

Crawler Carrier traveling over GCL, moving sand bags

Crawler Carrier deploying HDPE Liner over GCL

05 13 2005 11:53

GEOSYNTEC CONSULTANTS

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San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 21	Revision No.: -	Contractor Submittal No.: 21
Specification Section(s): 02770	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geomembrane Properties and Sample		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

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DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:29:28 -07'00'

Prepared by Print Name/Sign Name	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 21 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Geomembrane Properties and Sample

Specification Identifier: Section 02770 Table 02770-1

Manufacturer: GSE Lining

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved	[ ] Code 4 - Approved As Noted, Resubmit
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Engineer Stamp or Remarks Area:

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

GSE®

GSE STANDARD PRODUCTS

Product Data Sheet

GSE White

GSE White is a patented, coextruded, light reflective HDPE geomembrane, with a UV-stabilized, white upper surface that is approximately 3-5 mils (0.075-0.125 mm) thick. This layer is part of the total thickness, the remainder of which is a carbon black stabilized primary layer. GSE White improves detection of post-installation damage and reduces heat buildup on the liner by reflecting solar energy. Reducing liner temperature leads to fewer wrinkles and less subgrade desiccation. Variations of this product include the opposite side being electrically conductive and one or both sides being textured. *These product specifications meet or exceed GRI GM13.*

Product Specifications

GSE Advantage Products
GSE GundSeal • GSE Conductive • GSE White • GSE PermaNet • GSE BioDrain System

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM VALUE				
Product Code			HDE 030A010	HDE 040A010	HDE 060A010	HDE 080A010	HDE 100A010
Thickness, (minimum average) mil (mm)	ASTM D 5199	every roll	30 (0.75)	40 (1.00)	60 (1.50)	80 (2.00)	100 (2.50)
Lowest individual reading (-10%)			27 (0.69)	36 (0.91)	54 (1.40)	72 (1.80)	90 (2.30)
Density[2], g/cm³	ASTM D 1505	200,000 lb	0.94	0.94	0.94	0.94	0.94
Tensile Properties (each direction)	ASTM D 6693, Type IV	20,000 lb					
Strength at Break, lb/in-width (N/mm)	Dumbell, 2 ipm		114 (20)	152 (27)	228 (40)	304 (53)	380 (67)
Strength at Yield, lb/in-width (N/mm)			63 (11)	84 (15)	126 (22)	168 (29)	210 (37)
Elongation at Break, %	G.L. = 2.0 in (51 mm)		700	700	700	700	700
Elongation at Yield, %	G.L. = 1.3 in (33 mm)		12	12	12	12	12
Tear Resistance, lb (N)	ASTM D 1004	45,000 lb	21 (93)	28 (125)	42 (187)	56 (249)	70 (311)
Puncture Resistance, lb (N)	ASTM D 4833	45,000 lb	54 (240)	72 (320)	108 (480)	144 (640)	180 (800)
Carbon Black Content[1], %	ASTM D 1603, black layer	20,000 lb	2.0	2.0	2.0	2.0	2.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb	+Note 1	+Note 1	+Note 1	+Note 1	+Note 1
Notched Constant Tensile Load, hr	ASTM D 5397, Appendix	200,000 lb	300	300	300	300	300
REFERENCE PROPERTY	**TEST METHOD**	**FREQUENCY**	**NOMINAL VALUE**				
Oxidative Induction Time[2], min	ASTM D 3895, 200° C; O_2, 1 atm	200,000 lb	>100	>100	>100	>100	>100
Roll Length[3] (approximate), ft (m)			1,120 (341)	870 (265)	560 (171)	430 (131)	340 (104)
Roll Width[3], ft (m)			22.5 (6.9)	22.5 (6.9)	22.5 (6.9)	22.5 (6.9)	22.5 (6.9)
Roll Area, ft² (m²)			25,200 (2,341)	19,575 (1,819)	12,600 (1,171)	9,675 (899)	7,650 (711)

NOTES:

- +Note 1: Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.
- GSE White is available in rolls weighing about 3,900 lb (1,769 kg).
- [1]GSE White may have an overall ash content greater than 3.0% due to the white layer.
- All GSE geomembranes have dimensional stability of ±2% when tested with ASTM D 1204 and LTB of <-77° C when tested with ASTM D 746.
- [2]The values apply to the black layer only.
- [3]Roll lengths and widths have a tolerance of ± 1%.

DS007 Wh R03/09/06

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South America	GSE Lining Technology Chile S.A.	Santiago, Chile		56 2 595 4200	Fax: 56 2 595 4290
Asia Pacific	GSE Lining Technology Company Limited	Bangkok, Thailand		66 2 937 0091	Fax: 66 2 937 0097
Europe & Africa	GSE Lining Technology GmbH	Hamburg, Germany		49 40 767420	Fax: 49 40 7674234
Middle East	GSE Lining Technology-Egypt	The 6th of October City, Egypt		202 2 828 8888	Fax: 202 2 828 8889

www.gseworld.com

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 30 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 22 and 22R	Revision No.: -	Contractor Submittal No.: 22 and 22R
Specification Section(s): 02772	Date of Submittal Report: 4 August 2006	
Submittal Subject: Manufacturer's Exceptions/Clarification		

Notations:

- ☐ No Exception Taken
- ☒ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks: Montmorillonite content statement – No Exception Taken

Permeability testing shall be conducted at a frequency of once per 200,000 SF of GCL. No change in frequency will be made/accepted.

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.09.01 17:02:38 -07'00'

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Jennifer Ferguson		Gregory T. Corcoran, P.E	

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 22 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Manufacturers Exceptions / Clarification

Specification Identifier: Section 02772, 2.01 C. & 2.02 F.

Manufacturer: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

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[ ] Code 3 - Approved As Noted, Confirm	[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☐ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: _____ By: _____

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

June 14, 2006

Re: IUC White Mesa Mill Cell 4A
Specification Review

To whom it may concern:

Based on our review of the project specifications, CETCO proposes to supply the following product to the project:

- Bentomat ST (reinforced GCL).

This products will meet or exceed the required project specifications, with the clarifications discussed below.

GEOSYNTHETIC CLAY LINER

Bentomat ST, our standard reinforced geosynthetic clay liner, will meet or exceed the project specifications, with the following clarifications:

- **Montmorillonite Content.** The specification requests that the GCL bentonite contain greater than 90 percent sodium montmorillonite. Unfortunately, there are no reliable test methods available for determining sodium montmorillonite content. The available methods, at best, can give a qualitative indication of montmorillonite content, but cannot differentiate between calcium and sodium montmorillonite. As a result, even if the montmorillonite content were to be measured, it would not provide any indication of GCL performance. The industry uses free swell (ASTM D5890) and fluid loss (ASTM D5891) tests to distinguish between low-quality and high-quality sodium bentonites. Free swell values higher than 18 mL/2g are indicative of high quality bentonites, that are predominantly sodium bentonite, and that would yield acceptable GCL permeability values. Our certified free swell value is even higher, 24 mL/2g. For these reasons, we request an exception to the sodium montmorillonite requirement.

- **Permeability/Flux Test Frequency.** The specification requests permeability testing once every 200,000 square feet. CETCO tests index flux/permeability of our GCLs once per production lot (once per week). This is the frequency recommended by ASTM D5889, Quality Control of Geosynthetic Clay Liners. Unfortunately, the test costs $260 each and takes up to 3 weeks to complete – assuming a total of 2,090,000 square feet of GCL, 10 extra tests would be needed, at an additional cost of **$2,600**. We request an exception to the permeability test frequency and ask that the standard frequency recommended by ASTM be allowed for this project.

Sincerely,

Chris Athanassopoulos, P.E.
Technical Support Engineer

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 22 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Manufacturers Exceptions / Clarification

Specification Identifier: Section 02772, 2.01 C. & 2.02 F.

Manufacturer: CETCO

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Engineer Stamp or Remarks Area:

☐ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: _____ By: _____

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

June 14, 2006

Re: IUC White Mesa Mill Cell 4A
Specification Review

To whom it may concern:

Based on our review of the project specifications, CETCO proposes to supply the following product to the project:

- Bentomat ST (reinforced GCL).

This products will meet or exceed the required project specifications, with the clarifications discussed below.

GEOSYNTHETIC CLAY LINER

Bentomat ST, our standard reinforced geosynthetic clay liner, will meet or exceed the project specifications, with the following clarifications:

- **Montmorillonite Content.** The specification requests that the GCL bentonite contain greater than 90 percent sodium montmorillonite. Unfortunately, there are no reliable test methods available for determining sodium montmorillonite content. The available methods, at best, can give a qualitative indication of montmorillonite content, but cannot differentiate between calcium and sodium montmorillonite. As a result, even if the montmorillonite content were to be measured, it would not provide any indication of GCL performance. The industry uses free swell (ASTM D5890) and fluid loss (ASTM D5891) tests to distinguish between low-quality and high-quality sodium bentonites. Free swell values higher than 18 mL/2g are indicative of high quality bentonites, that are predominantly sodium bentonite, and that would yield acceptable GCL permeability values. Our certified free swell value is even higher, 24 mL/2g. For these reasons, we request an exception to the sodium montmorillonite requirement.

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Sincerely,

Chris Athanassopoulos, P.E.
Technical Support Engineer

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	22-R	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Manufacturers Exceptions / Clarification

Specification Identifier: Section 02772, 2.01 C. & 2.02 F.

Manufacturer: CETCO

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Engineer Stamp or Remarks Area:

☐ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☒ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/1/04 By: _____

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

32 Wisteria Ct. Reno, NV 89511

August 23, 2006

Jerry Pryor
Comanco Environmental Corp.
1135 Terminal Way Suite 204-A
Reno, NV 89502

RE: IUC White Mesa Mill – Geosynthetic Clay Liner (GCL)

Dear Jerry,

In response to your email regarding the permeability testing for the above referenced project, there would not be a "rebate" for reduced testing. At the time of our bid, we requested a reduced testing frequency for this property due to the expense and length of the test itself. We stated that if the frequency was not reduced, there would be an added charge of $2600.00 for the testing. It would have to be done at an independent lab, as CETCO does not have enough permeameters for this amount of testing.

If you have any other questions regarding this matter, please contact me.

Sincerely,

Lori Tockey
Technical Sales Manager
CETCO Lining Technologies

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 21 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 23	Revision No.: -	Contractor Submittal No.: 23
Specification Section(s): 02771	Date of Submittal Report: 4 August 2006	
Submittal Subject: Geotextile Exceptions		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.08.21 16:32:57 -07'00'

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Print Name/Sign Name		Gregory T. Corcoran, P.E	

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COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 23 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 2 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Geotextile Manufactures Exceptions / Clarifications

Specification Identifier: Section 02771, 2.02, F.1.

Manufacturer: SKAPS

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GEOSYNTEC CONSULTANTS

Date: 8/21/06 By: _____

Engineered Synthetic Products, Inc.

Representing

SKAPS Industries

405 Hood Road
Lilburn, GA 30047
Phone (770) 564-1857
Fax (770) 564-1818

CLARIFICATIONS

Clarifications: Nonwoven permittivity will be 0.57sec(-1), not 0.7. Puncture will be 240lbs, not 250.

Given By: **Rick Franklin**
rick@espgeosynthetics.com

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 31 August 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 24	Revision No.: -	Contractor Submittal No.: 24
Specification Section(s): 02770	Date of Submittal Report: 14 August 2006	
Submittal Subject: Geomembrane NCTL Test Results		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Digitally signed by Gregory T Corcoran
DN: CN = Gregory T Corcoran, C = US, O = GeoSyntec
Date: 2006.09.05 08:20:05 -07'00'

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Jennifer Ferguson		Gregory T. Corcoran, P.E	

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	~~25~~ 24	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: NCTL Test Results

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

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Engineer Stamp or Remarks Area:

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GEOSYNTEC CONSULTANTS

Date: 9/1/06 By: _____

Report Date
8/14/2006

Quality Assurance Laboratory Test Results

Job Name: IUC White Mesa Mill Cell 4A
Sales Order: 48018

Required Testing: ASTM D 5397 - Standard Test Method for Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant Tensile Load Test

Custom Frequency: Certify

Custom Criteria: 400 hours

Product Code	Resin Lot Number	Test Results
HDE060A010	8260613	PASS
HDE060A010	8260742	PASS

Approved By: Jane Allen
Date Approved: August 9, 2006

The above stated data shall not be reproduced except in full, without the written approval of the laboratory.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 14 August 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 24-2	Revision No.: -	Contractor Submittal No.: 24-2
Specification Section(s): 02770-3, 1.06, A. 1.	Date of Submittal Report: 14 August 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

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Prepared by Meghan Lithgow	08/14/06 **Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	8/14/06 **Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	24 - 2	[X]	Original Submittal	[ ]	Supplement
Submitted:		[ ]	Resubmittal	[ ]	Information Only
No. of Copies:	2				

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

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Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

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GEOSYNTEC CONSULTANTS

Date: 8/11/06 By: _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130216	195425	HDE060A010	HDE060A010	8/12/2006	560
105130217	195425	HDE060A010	HDE060A010	8/13/2006	560
105130218	195425	HDE060A010	HDE060A010	8/13/2006	560
105130219	195425	HDE060A010	HDE060A010	8/13/2006	560
105130220	195425	HDE060A010	HDE060A010	8/13/2006	560
105130221	195425	HDE060A010	HDE060A010	8/13/2006	560
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560

CoA Date: 05/16/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87141694
PO #: 37745
Weight: 181300 LB
Ship Date: 05/12/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX002472
Seal No: 192105

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260613

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	11.9	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		04/20/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

CoA Date: 05/22/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87149215
PO #: 37745
Weight: 181900 LB
Ship Date: 05/22/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX001317
Seal No: 192155

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260742

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	13.5	g/10mi
Density	ASTM D1505	0.938	g/cm3
Production Date		05/18/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

PETROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/06/21 16:48:07

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
UNP4 /2 2038

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195412

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.140		
Flow Index 190C 21.6kg	g/10mi	16.4	13.0	18.0
Melt Flow Ratio	---	117:1		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	210	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC 1-281-230-8630

Your reference
37509

Your material number

Quality certificate

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195425 / Qty 88,680 KG 195,506 lb

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.119		
Flow Index 190C 21.6kg	g/10mi	15.2	13.0	18.0
Melt Flow Ratio	---	127.2		
Density Annealed 15C/min	g/cc	0.9381	0.9360	0.9390
Oxydative Induction Time	min	214	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/14/2006

QC Approved

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48016	520724	Comanco	Blanding, UT	HDE060A010	8/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10
105130216	62	60	147	150	303	285	17	18	894	811	48	51	145	0.946	2.33	10
105130217	61	59	143	146	302	281	18	19	919	822	46	48	143	0.946	2.44	10
105130218	61	59	143	146	302	281	18	19	919	822	46	48	143	0.946	2.44	10
105130219	60	57	143	146	302	281	18	19	919	822	46	48	143	0.946	2.44	10
105130220	61	58	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130221	61	58	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10

Laboratory Manager:

GSE-8.2.4-029 Rev – 03/05

This test report shall not be reproduced, except in full, without written approval of the laboratory.

19103 Gundle Road - Houston, Texas 77073

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 15 August 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 24-3	Revision No.: -	Contractor Submittal No.: 24-2
Specification Section(s): 02770-3, 1.06, A. 1.	Date of Submittal Report: 15 August 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

08/15/06	8/15/06
Prepared by Meghan Lithgow — **Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E — **Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	24 - 3	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 8/15/06 By: _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130216	195425	HDE060A010	HDE060A010	8/12/2006	560
105130217	195425	HDE060A010	HDE060A010	8/13/2006	560
105130218	195425	HDE060A010	HDE060A010	8/13/2006	560
105130219	195425	HDE060A010	HDE060A010	8/13/2006	560
105130220	195425	HDE060A010	HDE060A010	8/13/2006	560
105130221	195425	HDE060A010	HDE060A010	8/13/2006	560
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560

Linina Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/15/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10
105130216	62	60	147	150	303	285	17	18	894	811	48	51	145	0.946	2.33	10
105130217	61	59	143	146	302	281	18	19	919	822	46	48	143	0.946	2.44	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	5/15/2006 *Modified

	ASTM D 5199		ASTM D638, Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat 1 - Cat2
Roll No.	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105130218	61	59	143	146	302	281	18	19	919	822	46	48	143	0.946	2.44	10
105130219	60	57	143	146	302	281	18	19	919	822	46	48	143	0.946	2.44	10
105130220	61	58	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130221	61	58	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10

Laboratory Manager:

GSE-8.2.4-029 Rev -- 03/05

This test report shall not be reproduced, except in full, without written approval of the laboratory.

19103 Gundle Road - Houston, Texas 77073

Chevron Phillips

CoA Date: 05/16/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87141694
PO #: 37745
Weight: 181300 LB
Ship Date: 05/12/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX002472
Seal No: 192105

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260613

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	11.9	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		04/20/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

Chevron Phillips

CoA Date: 05/22/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87149215
PO #: 37745
Weight: 181900 LB
Ship Date: 05/22/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX001317
Seal No: 192155

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260742

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	13.5	g/10mi
Density	ASTM D1505	0.938	g/cm3
Production Date		05/18/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

PETROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/06/21 16:48:07

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
UNP4 /2 2038

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195412

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.140		
Flow Index 190C 21.6kg	g/10mi	16.4	13.0	18.0
Melt Flow Ratio	---	117.1		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	210	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA
Contact
DON BOHAC
Your reference

Your material number

Quality certificate

Date
2006/07/10 15:58:31
Delivery item
S-7000 PETROMONT HDPE-7000
Delivery number and item

Order number and item

Vehicule

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195426

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.117		
Flow Index 190C 21.6kg	g/10mi	15.1	13.0	18.0
Melt Flow Ratio	---	128.5		
Density Annealed 15C/min	g/cc	0.9381	0.9360	0.9390
Oxydative Induction Time	min	214	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 18 August 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 24-4	Revision No.: -	Contractor Submittal No.: 24-4
Specification Section(s): 02770-3, 1.06, A. 1.	Date of Submittal Report: 18 August 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow	08/18/06	Gregory T. Corcoran	8/18/06
Prepared by Meghan Lithgow	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	24 - 4	☒	Original Submittal	☐	Supplement
Submitted:		☐	Resubmittal	☐	Information Only
No. of Copies:	2				

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

☐	Code 1 - Approved	☐	Code 4 - Approved As Noted, Resubmit
☐	Code 2 - Approved As Noted	☐	Code 5 - Not Approved
☐	Code 3 - Approved As Noted, Confirm	☐	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☒ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 8/16/06 By: _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

RollId	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blending, UT	HDE060A010	8/16/2006

QC

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10

Living Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/16/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/16/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10

Laboratory Manager:

GSE-8.2.4-029 Rev -- 03/05

This test report shall not be reproduced, except in full, without written approval of the laboratory.

19103 Gundle Road - Houston, Texas 77073

Chevron Phillips

CoA Date: 05/16/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87141694
PO #: 37745
Weight: 181300 LB
Ship Date: 05/12/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX002472
Seal No: 192105

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260613

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	11.9	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		04/20/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

CoA Date: 05/22/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87149215
PO # 37745
Weight: 181900 LB
Ship Date: 05/22/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX001317
Seal No: 192155

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260742

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	13.5	g/10mi
Density	ASTM D1505	0.938	g/cm3
Production Date		05/18/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/07/10 15:58:31

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195426

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.117		
Flow Index 190C 21.6kg	g/10mi	15.1	13.0	18.0
Melt Flow Ratio	---	128.5		
Density Annealed 15C/min	g/cc	0.9381	0.9360	0.9390
Oxydative Induction Time	min	214	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/06/21 16:48:07

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
UNPY /2 2038

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195412

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.140		
Flow Index 190C 21.6kg	g/10mi	16.4	13.0	18.0
Melt Flow Ratio	---	117.1		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	210	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 18 August 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 24-5	Revision No.: -	Contractor Submittal No.: 24-5
Specification Section(s): 02770-3, 1.06, A. 1.	Date of Submittal Report: 18 August 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow	08/18/06		8/18/06
Prepared by Meghan Lithgow	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	24 - 5	☒	Original Submittal	☐	Supplement
Submitted:		☐	Resubmittal	☐	Information Only
No. of Copies:	2				

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

☐	Code 1 - Approved	☐	Code 4 - Approved As Noted, Resubmit
☐	Code 2 - Approved As Noted	☐	Code 5 - Not Approved
☐	Code 3 - Approved As Noted, Confirm	☐	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☒ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 8/18/06 By: _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

RollB	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560
105130257	195426	HDE060A010	HDE060A010	8/16/2006	560
105130260	195426	HDE060A010	HDE060A010	8/16/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130261	195427	HDE060A010	HDE060A010	8/16/2006	560
105130262	195427	HDE060A010	HDE060A010	8/16/2006	560
105130263	195427	HDE060A010	HDE060A010	8/16/2006	560
105130264	195427	HDE060A010	HDE060A010	8/16/2006	560
105130265	195427	HDE060A010	HDE060A010	8/16/2006	560
105130266	195427	HDE060A010	HDE060A010	8/16/2006	560
105130267	195427	HDE060A010	HDE060A010	8/16/2006	560
105130268	195427	HDE060A010	HDE060A010	8/17/2006	560
105130269	195427	HDE060A010	HDE060A010	8/17/2006	560
105130270	195427	HDE060A010	HDE060A010	8/17/2006	560
105130271	195427	HDE060A010	HDE060A010	8/17/2006	560
105130272	195427	HDE060A010	HDE060A010	8/17/2006	560
105130273	195427	HDE060A010	HDE060A010	8/17/2006	560
105130274	195427	HDE060A010	HDE060A010	8/17/2006	560
105130275	195427	HDE060A010	HDE060A010	8/17/2006	560
105130277	195427	HDE060A010	HDE060A010	8/17/2006	560
105130278	195427	HDE060A010	HDE060A010	8/17/2006	560
105130279	195427	HDE060A010	HDE060A010	8/17/2006	560
105130280	195427	HDE060A010	HDE060A010	8/17/2006	560
105130281	195430	HDE060A010	HDE060A010	8/18/2006	560
105130282	195430	HDE060A010	HDE060A010	8/18/2006	560

Lining Technology, Inc

Roll Test D Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
42018	520724	Comanco	Standing, UT	HDE060A010	8/18/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @Yield	MD Elongation @Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat 1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	46	49	150	0.946	2.58	10

Lining Technology, Inc

Roll Test D Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
46018	520724	Comanco	Blanding, UT	HDE060A010	8/18/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @Yield	MD Elongation @Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/18/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 + Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130257	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130260	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130261	60	56	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130262	60	58	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130263	61	57	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130264	60	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130265	62	59	171	136	303	296	18	20	854	861	48	47	137	0.944	2.30	10
105130266	62	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130267	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130268	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130269	62	58	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130270	61	57	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130271	61	59	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130272	61	58	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130273	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130274	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130275	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130277	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130278	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130279	62	60	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130280	61	60	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130281	61	59	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130282	60	57	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10

Laboratory Manager:

GSE-8.2.4-029 Rev -- 03/05

This test report shall not be reproduced, except in full, without written approval of the laboratory.

19103 Gundle Road - Houston, Texas 77073

Chevron Phillips

CoA Date: 05/16/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87141694
PO #: 37745
Weight: 181300 LB
Ship Date: 05/12/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX002472
Seal No: 192105

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260613

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	11.9	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		04/20/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

Chevron Phillips

CoA Date: 05/22/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87149215
PO #: 37745
Weight: 181900 LB
Ship Date: 05/22/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX001317
Seal No: 192155

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260742

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	13.5	g/10mi
Density	ASTM D1505	0.938	g/cm3
Production Date		05/18/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

PETROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/06/21 16:48:07

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
UNP4 /2 2038

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195412

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.140		
Flow Index 190C 21.6kg	g/10mi	16.4	13.0	18.0
Melt Flow Ratio	---	117.1		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	210	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/07/10 15:58:31

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195426

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.117		
Flow Index 190C 21.6kg	g/10mi	15.1	13.0	18.0
Melt Flow Ratio	---	128.5		
Density Annealed 15C/min	g/cc	0.9381	0.9360	0.9390
Oxydative Induction Time	min	214	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor	**Date:** 23 August 2006	**Job No.:** SC0349-02
ADDRESS:	Comanco Environmental Corporation	**Project Name**	
	1135 Terminal Way, Suite 204A	International Uranium (USA) Corporation	
	Reno, Nevada 89502	White Mesa Mill	
		Cell 4A	

Submittal I.D. No.: 25-6	Revision No.: -	Contractor Submittal No.: 25-6
Specification Section(s): 02770-3, 1.06, A. 1.	Date of Submittal Report: 23 August 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow	08/23/06		8/23/06
Prepared by Meghan Lithgow	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	25 - 6	[X]	Original Submittal	[ ]	Supplement
Submitted:		[ ]	Resubmittal	[ ]	Information Only
No. of Copies:	2				

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/23/06 By: _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560
105130257	195426	HDE060A010	HDE060A010	8/16/2006	560
105130260	195426	HDE060A010	HDE060A010	8/16/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130261	195427	HDE060A010	HDE060A010	8/16/2006	560
105130262	195427	HDE060A010	HDE060A010	8/16/2006	560
105130263	195427	HDE060A010	HDE060A010	8/16/2006	560
105130264	195427	HDE060A010	HDE060A010	8/16/2006	560
105130265	195427	HDE060A010	HDE060A010	8/16/2006	560
105130266	195427	HDE060A010	HDE060A010	8/16/2006	560
105130267	195427	HDE060A010	HDE060A010	8/16/2006	560
105130268	195427	HDE060A010	HDE060A010	8/17/2006	560
105130269	195427	HDE060A010	HDE060A010	8/17/2006	560
105130270	195427	HDE060A010	HDE060A010	8/17/2006	560
105130271	195427	HDE060A010	HDE060A010	8/17/2006	560
105130272	195427	HDE060A010	HDE060A010	8/17/2006	560
105130273	195427	HDE060A010	HDE060A010	8/17/2006	560
105130274	195427	HDE060A010	HDE060A010	8/17/2006	560
105130275	195427	HDE060A010	HDE060A010	8/17/2006	560
105130277	195427	HDE060A010	HDE060A010	8/17/2006	560
105130278	195427	HDE060A010	HDE060A010	8/17/2006	560
105130279	195427	HDE060A010	HDE060A010	8/17/2006	560
105130280	195427	HDE060A010	HDE060A010	8/17/2006	560
105130281	195430	HDE060A010	HDE060A010	8/18/2006	560
105130282	195430	HDE060A010	HDE060A010	8/18/2006	560
105130283	195430	HDE060A010	HDE060A010	8/18/2006	560
105130284	195430	HDE060A010	HDE060A010	8/18/2006	560
105130285	195430	HDE060A010	HDE060A010	8/18/2006	560
105130286	195430	HDE060A010	HDE060A010	8/18/2006	560
105130287	195430	HDE060A010	HDE060A010	8/18/2006	560
105130288	195430	HDE060A010	HDE060A010	8/18/2006	560
105130289	195430	HDE060A010	HDE060A010	8/18/2006	560
105130290	195430	HDE060A010	HDE060A010	8/18/2006	560
105130291	195430	HDE060A010	HDE060A010	8/18/2006	560
105130292	195430	HDE060A010	HDE060A010	8/18/2006	560
105130293	195430	HDE060A010	HDE060A010	8/18/2006	560
105130294	195430	HDE060A010	HDE060A010	8/19/2006	560
105130295	195430	HDE060A010	HDE060A010	8/19/2006	560
105130296	195430	HDE060A010	HDE060A010	8/19/2006	560
105130297	195430	HDE060A010	HDE060A010	8/19/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130298	195384	HDE060A010	HDE060A010	8/19/2006	560
105130299	195384	HDE060A010	HDE060A010	8/19/2006	560
105130300	195384	HDE060A010	HDE060A010	8/19/2006	560
105130301	195384	HDE060A010	HDE060A010	8/19/2006	560
105130302	195384	HDE060A010	HDE060A010	8/19/2006	560
105130303	195384	HDE060A010	HDE060A010	8/19/2006	560
105130304	195384	HDE060A010	HDE060A010	8/19/2006	560
105130305	195384	HDE060A010	HDE060A010	8/19/2006	560
105130306	195384	HDE060A010	HDE060A010	8/20/2006	560
105130307	195384	HDE060A010	HDE060A010	8/20/2006	560
105130308	195384	HDE060A010	HDE060A010	8/20/2006	560
105130309	195384	HDE060A010	HDE060A010	8/20/2006	560
105130310	195384	HDE060A010	HDE060A010	8/20/2006	560
105130312	195384	HDE060A010	HDE060A010	8/20/2006	560
105130313	195384	HDE060A010	HDE060A010	8/20/2006	560
105130314	195384	HDE060A010	HDE060A010	8/20/2006	560
105130315	195384	HDE060A010	HDE060A010	8/20/2006	560
105130316	195384	HDE060A010	HDE060A010	8/20/2006	560
105130317	195384	HDE060A010	HDE060A010	8/20/2006	560
105130318	195384	HDE060A010	HDE060A010	8/20/2006	560
105130319	195384	HDE060A010	HDE060A010	8/21/2006	560
105130320	195384	HDE060A010	HDE060A010	8/21/2006	560
105130321	195384	HDE060A010	HDE060A010	8/21/2006	560
105130322	195384	HDE060A010	HDE060A010	8/21/2006	560
105130323	195429	HDE060A010	HDE060A010	8/21/2006	560
105130324	195429	HDE060A010	HDE060A010	8/21/2006	560
105130325	195429	HDE060A010	HDE060A010	8/21/2006	560
105130326	195429	HDE060A010	HDE060A010	8/21/2006	560
105130327	195429	HDE060A010	HDE060A010	8/21/2006	560

Roll Test D[illegible] Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/22/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10

Roll Test D[illegible] Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/22/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10

Roll Test D Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/22/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130257	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130260	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130261	60	56	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130262	60	58	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130263	61	57	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130264	60	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130265	62	59	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130266	62	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130267	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130268	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130269	62	58	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130270	61	57	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130271	61	59	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130272	61	58	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130273	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130274	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130275	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130277	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130278	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130279	62	60	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130280	61	60	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130281	61	59	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130282	60	57	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130283	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130284	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10

Roll Test D Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	8/22/2006

QC

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130285	61	59	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130286	61	59	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130287	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130288	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130289	60	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130290	61	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130291	60	58	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130292	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130293	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130294	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130295	60	59	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130296	60	58	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130297	61	56	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130298	61	59	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130299	60	57	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130300	60	58	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130301	61	57	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130302	61	58	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130303	61	60	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130304	61	59	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130305	60	58	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130306	60	57	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130307	60	57	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130308	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130309	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130310	60	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130312	61	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130313	61	57	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130314	61	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130315	60	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130316	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HOE060A010	8/22/2006

QC

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130317	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130318	60	59	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130319	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130320	60	58	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130321	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130322	60	59	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
105130323	62	59	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
105130324	60	56	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
105130325	60	57	138	132	299	301	18	21	905	888	45	47	144	0.945	2.37	10
105130326	61	56	138	132	299	301	18	21	905	888	45	47	144	0.945	2.37	10
105130327	60	57	138	132	299	301	18	21	905	888	45	47	144	0.945	2.37	10

Laboratory Manager: Joe Allen

GSE-8.2.4-029 Rev – 03/05

This test report shall not be reproduced, except in full, without written approval of the laboratory.

19103 Gundle Road - Houston, Texas 77073

CoA Date: 05/16/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87141694
PO #: 37745
Weight: 181300 LB
Ship Date: 05/12/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX002472
Seal No: 192105

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260613

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	11.9	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		04/20/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

CoA Date: 05/22/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87149215
PO #: 37745
Weight: 181900 LB
Ship Date: 05/22/2006
Package: BULK
Mode: Hopper Car
Car #: PSPX001317
Seal No: 192155

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8260742

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.11	g/10mi
HLMI Flow Rate	ASTM D1238	13.5	g/10mi
Density	ASTM D1505	0.938	g/cm3
Production Date		05/18/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP.
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/07/14 16:38:51

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195384

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.113		
Flow Index 190C 21.6kg	g/10mi	14.3	13.0	18.0
Melt Flow Ratio	---	126.5		
Density Annealed 15C/min	g/cc	0.9382	0.9360	0.9390
Oxydative Induction Time	min	227	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-6400
http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/06/21 16:48:07

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
UNPY /2 2038

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195412

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.140		
Flow Index 190C 21.6kg	g/10mi	16.4	13.0	18.0
Melt Flow Ratio	---	117:1		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	210	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

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http://www.petromont.com

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/07/10 15:58:31

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195426

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.117		
Flow Index 190C 21.6kg	g/10mi	15.1	13.0	18.0
Melt Flow Ratio	---	128.5		
Density Annealed 15C/min	g/cc	0.9381	0.9360	0.9390
Oxydative Induction Time	min	214	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

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PETROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA
Contact
DON BOHAC 1-281-230-8630
Your reference
37509
Your material number

Quality certificate

Date
2006/08/01 11:53:54
Delivery item
S-7000 PETROMONT HDPE-7000
Delivery number and item
80102370 000010
Order number and item
28079 000010
Vehicule
UNPX 123460

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195427 / Qty 87,940 KG 193,875 lb

Characteristics	Unit	Value	Lower Limit	Upper Limit
Melt index 190C 2.16 kg	g/10mi	0.122		
Flow Index 190C 21.6kg	g/10mi	15.5	13.0	18.0
Melt Flow Ratio	---	127.1		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	199	130	

*** End

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

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Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA.

Contact
DON BOHAC 1-281-230-8630

Your reference
37509

Your material number

Quality certificate

Date
2006/08/01 11:55:34

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item
80102374 000010

Order number and item
28081 000010

Vehicule
UNPX 122880

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195429 / Qty 86,080 KG 189,774 lb

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.132		
Flow Index 190C 21.6kg	g/10mi	16.4	13.0	18.0
Melt Flow Ratio	---	124.3		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	194	130	

End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

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Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

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Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
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Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC 1-281-230-8630

Your reference
37509

Your material number

Quality certificate

Date
2006/08/01 11:54:56

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item
80102373 000010

Order number and item
28082 000010

Vehicule
CGLX 10454

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195430 / Qty 88,400 KG 194,889 lb

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.130		
Flow Index 190C 21.6kg	g/10mi	16.2	13.0	18.0
Melt Flow Ratio	---	124.7		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	187	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

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Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 5 September 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 25-7	Revision No.: -	Contractor Submittal No.: 25-6
Specification Section(s): 02770-3, 1.06, A. 1.	Date of Submittal Report: 5 September 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

09/05/06		9/5/06	
Prepared by Meghan Lithgow	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	25 - 7	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/05/06 By: _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560
105130257	195426	HDE060A010	HDE060A010	8/16/2006	560
105130260	195426	HDE060A010	HDE060A010	8/16/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130261	195427	HDE060A010	HDE060A010	8/16/2006	560
105130262	195427	HDE060A010	HDE060A010	8/16/2006	560
105130263	195427	HDE060A010	HDE060A010	8/16/2006	560
105130264	195427	HDE060A010	HDE060A010	8/16/2006	560
105130265	195427	HDE060A010	HDE060A010	8/16/2006	560
105130266	195427	HDE060A010	HDE060A010	8/16/2006	560
105130267	195427	HDE060A010	HDE060A010	8/16/2006	560
105130268	195427	HDE060A010	HDE060A010	8/17/2006	560
105130269	195427	HDE060A010	HDE060A010	8/17/2006	560
105130270	195427	HDE060A010	HDE060A010	8/17/2006	560
105130271	195427	HDE060A010	HDE060A010	8/17/2006	560
105130272	195427	HDE060A010	HDE060A010	8/17/2006	560
105130273	195427	HDE060A010	HDE060A010	8/17/2006	560
105130274	195427	HDE060A010	HDE060A010	8/17/2006	560
105130275	195427	HDE060A010	HDE060A010	8/17/2006	560
105130277	195427	HDE060A010	HDE060A010	8/17/2006	560
105130278	195427	HDE060A010	HDE060A010	8/17/2006	560
105130279	195427	HDE060A010	HDE060A010	8/17/2006	560
105130280	195427	HDE060A010	HDE060A010	8/17/2006	560
105130281	195430	HDE060A010	HDE060A010	8/18/2006	560
105130282	195430	HDE060A010	HDE060A010	8/18/2006	560
105130283	195430	HDE060A010	HDE060A010	8/18/2006	560
105130284	195430	HDE060A010	HDE060A010	8/18/2006	560
105130285	195430	HDE060A010	HDE060A010	8/18/2006	560
105130286	195430	HDE060A010	HDE060A010	8/18/2006	560
105130287	195430	HDE060A010	HDE060A010	8/18/2006	560
105130288	195430	HDE060A010	HDE060A010	8/18/2006	560
105130289	195430	HDE060A010	HDE060A010	8/18/2006	560
105130290	195430	HDE060A010	HDE060A010	8/18/2006	560
105130291	195430	HDE060A010	HDE060A010	8/18/2006	560
105130292	195430	HDE060A010	HDE060A010	8/18/2006	560
105130293	195430	HDE060A010	HDE060A010	8/18/2006	560
105130294	195430	HDE060A010	HDE060A010	8/19/2006	560
105130295	195430	HDE060A010	HDE060A010	8/19/2006	560
105130296	195430	HDE060A010	HDE060A010	8/19/2006	560
105130297	195430	HDE060A010	HDE060A010	8/19/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*	
105130298	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130299	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130300	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130301	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130302	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130303	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130304	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130305	195384	HDE060A010	HDE060A010	8/19/2006	560	
105130306	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130307	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130308	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130309	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130310	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130312	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130313	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130314	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130315	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130316	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130317	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130318	195384	HDE060A010	HDE060A010	8/20/2006	560	
105130319	195384	HDE060A010	HDE060A010	8/21/2006	560	
105130320	195384	HDE060A010	HDE060A010	8/21/2006	560	
105130321	195384	HDE060A010	HDE060A010	8/21/2006	560	
105130322	195384	HDE060A010	HDE060A010	8/21/2006	560	
105130323	195429	HDE060A010	HDE060A010	8/21/2006	560	Removed
105130324	195429	HDE060A010	HDE060A010	8/21/2006	560	
105130325	195429	HDE060A010	HDE060A010	8/21/2006	560	See Attached E Mail
105130326	195429	HDE060A010	HDE060A010	8/21/2006	560	
105130327	195429	HDE060A010	HDE060A010	8/21/2006	560	Removed
105130507	195823	HDE060A010	HDE060A010	9/4/2006	560	
105130508	195823	HDE060A010	HDE060A010	9/4/2006	560	
105130510	195823	HDE060A010	HDE060A010	9/4/2006	560	
105130511	195823	HDE060A010	HDE060A010	9/4/2006	560	
105130512	195823	HDE060A010	HDE060A010	9/4/2006	560	
105130513	195823	HDE060A010	HDE060A010	9/4/2006	560	
105130514	195823	HDE060A010	HDE060A010	9/4/2006	560	

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130515	195823	HDE060A010	HDE060A010	9/4/2006	560
105130516	195823	HDE060A010	HDE060A010	9/4/2006	560
105130517	195823	HDE060A010	HDE060A010	9/4/2006	560
105130518	195823	HDE060A010	HDE060A010	9/4/2006	560
105130519	195823	HDE060A010	HDE060A010	9/5/2006	560
105130520	195823	HDE060A010	HDE060A010	9/5/2006	560

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/5/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004	ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/5/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48016	520724	Comanco	Blanding, UT	HDE060A010	9/5/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130257	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130260	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130261	60	56	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130262	60	58	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130263	61	57	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130264	60	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130265	62	59	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130266	62	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130267	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130268	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130269	62	58	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130270	61	57	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130271	61	59	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130272	61	58	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130273	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130274	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130275	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130277	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130278	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130279	62	60	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130280	61	60	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130281	61	59	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130282	60	57	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130283	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130284	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/5/2006

QC

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130285	61	59	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130286	61	59	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130287	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130288	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130289	60	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130290	61	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130291	60	58	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130292	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130293	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130294	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130295	60	59	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130296	60	58	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130297	61	56	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130298	61	59	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130299	60	57	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130300	60	58	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130301	61	57	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130302	61	58	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130303	61	60	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130304	61	59	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130305	60	58	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130306	60	57	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130307	60	57	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130308	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130309	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130310	60	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130312	61	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130313	61	57	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130314	61	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130315	60	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130316	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
46018	520724	Comanco	Blanding, UT	HDE060A010	9/5/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130317	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130318	60	59	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130319	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130320	60	58	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130321	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130322	60	59	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
~~105130323~~	~~62~~	~~59~~	~~148~~	~~142~~	~~298~~	~~309~~	~~19~~	~~19~~	~~881~~	~~886~~	~~46~~	~~48~~	~~144~~	~~0.945~~	~~2.43~~	~~10~~
~~105130324~~	~~60~~	~~56~~	~~148~~	~~142~~	~~298~~	~~309~~	~~19~~	~~19~~	~~881~~	~~886~~	~~46~~	~~48~~	~~144~~	~~0.945~~	~~2.43~~	~~10~~
~~105130325~~	~~60~~	~~57~~	~~138~~	~~132~~	~~299~~	~~301~~	~~18~~	~~21~~	~~905~~	~~888~~	~~45~~	~~47~~	~~144~~	~~0.945~~	~~2.37~~	~~10~~
~~105130326~~	~~61~~	~~56~~	~~138~~	~~132~~	~~299~~	301	18	21	905	888	45	47	144	0.945	2.37	10
~~105130327~~	~~60~~	~~57~~	~~138~~	~~132~~	~~299~~	~~301~~	~~18~~	~~21~~	~~905~~	~~888~~	~~45~~	~~47~~	~~144~~	~~0.945~~	~~2.37~~	~~10~~
105130507	62	60	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130508	60	58	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130510	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130511	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130512	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130513	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130514	62	58	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130515	62	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130516	61	59	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130517	61	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130518	61	58	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130519	61	57	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130520	61	59	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10

REMOVED
SEE ATTACHED E-MAIL
REMOVED

Laboratory Manager:

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/5/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004	ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd	every 3rd	every 3rd	every 3rd	every 3rd	every 3rd

This test report shall not be reproduced, except in full, without written approval of the laboratory.

19103 Gundle Road - Houston, Texas 77073

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA
Contact
DON BOHAC 1-281-230-8630
Your reference
37509
Your material number

Quality certificate

Date
2006/08/01 11:54:56
Delivery item
S-7000 PETROMONT HDPE-7000
Delivery number and item
80102373 000010
Order number and item
28082 000010
Vehicule
CGLX 10454

Material: S-7000 PETROMONT HDPE-7000
Batch MM 195430 / Qty 88,400 KG 194,889 lb

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.130		
Flow Index 190C 21.6kg	g/10mi	16.2	13.0	18.0
Melt Flow Ratio	---	124.7		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	187	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10456 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/08/03 16:12:54

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
CNPX 1-23122467

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195823

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.130		
Flow Index 190C 21.6kg	g/10mi	16.3	13.0	18.0
Melt Flow Ratio	---	125.3		
Density Annealed 15C/min	g/cc	0.9377	0.9360	0.9390
Oxydative Induction Time	min	204	130	

*** End

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 6 September 2006	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 25-8	Revision No.: -	Contractor Submittal No.: 25-8
Specification Section(s): 02770-3, 1.06, A. 1.	Date of Submittal Report: 6 September 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Meghan Lithgow	09/06/06	Gregory T. Corcoran, P.E	9/6/06

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	25 - 8	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/6/06 By: _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560
105130257	195426	HDE060A010	HDE060A010	8/16/2006	560
105130260	195426	HDE060A010	HDE060A010	8/16/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130261	195427	HDE060A010	HDE060A010	8/16/2006	560
105130262	195427	HDE060A010	HDE060A010	8/16/2006	560
105130263	195427	HDE060A010	HDE060A010	8/16/2006	560
105130264	195427	HDE060A010	HDE060A010	8/16/2006	560
105130265	195427	HDE060A010	HDE060A010	8/16/2006	560
105130266	195427	HDE060A010	HDE060A010	8/16/2006	560
105130267	195427	HDE060A010	HDE060A010	8/16/2006	560
105130268	195427	HDE060A010	HDE060A010	8/17/2006	560
105130269	195427	HDE060A010	HDE060A010	8/17/2006	560
105130270	195427	HDE060A010	HDE060A010	8/17/2006	560
105130271	195427	HDE060A010	HDE060A010	8/17/2006	560
105130272	195427	HDE060A010	HDE060A010	8/17/2006	560
105130273	195427	HDE060A010	HDE060A010	8/17/2006	560
105130274	195427	HDE060A010	HDE060A010	8/17/2006	560
105130275	195427	HDE060A010	HDE060A010	8/17/2006	560
105130277	195427	HDE060A010	HDE060A010	8/17/2006	560
105130278	195427	HDE060A010	HDE060A010	8/17/2006	560
105130279	195427	HDE060A010	HDE060A010	8/17/2006	560
105130280	195427	HDE060A010	HDE060A010	8/17/2006	560
105130281	195430	HDE060A010	HDE060A010	8/18/2006	560
105130282	195430	HDE060A010	HDE060A010	8/18/2006	560
105130283	195430	HDE060A010	HDE060A010	8/18/2006	560
105130284	195430	HDE060A010	HDE060A010	8/18/2006	560
105130285	195430	HDE060A010	HDE060A010	8/18/2006	560
105130286	195430	HDE060A010	HDE060A010	8/18/2006	560
105130287	195430	HDE060A010	HDE060A010	8/18/2006	560
105130288	195430	HDE060A010	HDE060A010	8/18/2006	560
105130289	195430	HDE060A010	HDE060A010	8/18/2006	560
105130290	195430	HDE060A010	HDE060A010	8/18/2006	560
105130291	195430	HDE060A010	HDE060A010	8/18/2006	560
105130292	195430	HDE060A010	HDE060A010	8/18/2006	560
105130293	195430	HDE060A010	HDE060A010	8/18/2006	560
105130294	195430	HDE060A010	HDE060A010	8/19/2006	560
105130295	195430	HDE060A010	HDE060A010	8/19/2006	560
105130296	195430	HDE060A010	HDE060A010	8/19/2006	560
105130297	195430	HDE060A010	HDE060A010	8/19/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130298	195384	HDE060A010	HDE060A010	8/19/2006	560
105130299	195384	HDE060A010	HDE060A010	8/19/2006	560
105130300	195384	HDE060A010	HDE060A010	8/19/2006	560
105130301	195384	HDE060A010	HDE060A010	8/19/2006	560
105130302	195384	HDE060A010	HDE060A010	8/19/2006	560
105130303	195384	HDE060A010	HDE060A010	8/19/2006	560
105130304	195384	HDE060A010	HDE060A010	8/19/2006	560
105130305	195384	HDE060A010	HDE060A010	8/19/2006	560
105130306	195384	HDE060A010	HDE060A010	8/20/2006	560
105130307	195384	HDE060A010	HDE060A010	8/20/2006	560
105130308	195384	HDE060A010	HDE060A010	8/20/2006	560
105130309	195384	HDE060A010	HDE060A010	8/20/2006	560
105130310	195384	HDE060A010	HDE060A010	8/20/2006	560
105130312	195384	HDE060A010	HDE060A010	8/20/2006	560
105130313	195384	HDE060A010	HDE060A010	8/20/2006	560
105130314	195384	HDE060A010	HDE060A010	8/20/2006	560
105130315	195384	HDE060A010	HDE060A010	8/20/2006	560
105130316	195384	HDE060A010	HDE060A010	8/20/2006	560
105130317	195384	HDE060A010	HDE060A010	8/20/2006	560
105130318	195384	HDE060A010	HDE060A010	8/20/2006	560
105130319	195384	HDE060A010	HDE060A010	8/21/2006	560
105130320	195384	HDE060A010	HDE060A010	8/21/2006	560
105130321	195384	HDE060A010	HDE060A010	8/21/2006	560
105130322	195384	HDE060A010	HDE060A010	8/21/2006	560
105130507	195823	HDE060A010	HDE060A010	9/4/2006	560
105130508	195823	HDE060A010	HDE060A010	9/4/2006	560
105130510	195823	HDE060A010	HDE060A010	9/4/2006	560
105130511	195823	HDE060A010	HDE060A010	9/4/2006	560
105130512	195823	HDE060A010	HDE060A010	9/4/2006	560
105130513	195823	HDE060A010	HDE060A010	9/4/2006	560
105130514	195823	HDE060A010	HDE060A010	9/4/2006	560
105130515	195823	HDE060A010	HDE060A010	9/4/2006	560
105130516	195823	HDE060A010	HDE060A010	9/4/2006	560
105130517	195823	HDE060A010	HDE060A010	9/4/2006	560
105130518	195823	HDE060A010	HDE060A010	9/4/2006	560
105130519	195823	HDE060A010	HDE060A010	9/5/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130520	195823	HDE060A010	HDE060A010	9/5/2006	560
105130521	195823	HDE060A010	HDE060A010	9/5/2006	560
105130522	195823	HDE060A010	HDE060A010	9/5/2006	560
105130523	195836	HDE060A010	HDE060A010	9/5/2006	560
105130524	195836	HDE060A010	HDE060A010	9/5/2006	560
105130525	195836	HDE060A010	HDE060A010	9/5/2006	560
105130526	195836	HDE060A010	HDE060A010	9/5/2006	560
105130527	195836	HDE060A010	HDE060A010	9/5/2006	560
105130528	195836	HDE060A010	HDE060A010	9/5/2006	560
105130529	195836	HDE060A010	HDE060A010	9/5/2006	560
105130530	195836	HDE060A010	HDE060A010	9/5/2006	560
105130531	195836	HDE060A010	HDE060A010	9/6/2006	560
105130532	195836	HDE060A010	HDE060A010	9/6/2006	560

Liniua Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
46018	520724	Comanco	Blanding, UT	HDE060A010	9/6/2006

QC

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @Yield	MD Elongation @Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10

Liming Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/6/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D8693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	136	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060AC10	9/6/2005

QC

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @Yield	MD Elongation @Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105130257	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130260	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130261	60	56	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130262	60	58	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130263	61	57	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130264	60	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130265	62	59	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130266	62	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130267	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130268	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130269	62	58	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130270	61	57	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130271	61	59	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130272	61	58	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130273	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130274	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130275	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130277	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130278	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130279	62	60	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130280	61	60	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130281	61	59	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130282	60	57	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130283	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130284	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130285	61	59	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130286	61	59	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130287	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130288	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130289	60	59	143	129	299	293	18	22	863	864	44	46	137	0.945	2.27	10
105130290	61	59	143	129	299	293	18	22	863	864	44	46	137	0.945	2.27	10
105130291	60	58	143	129	299	293	18	22	863	864	44	46	137	0.945	2.27	10
105130292	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130293	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDEC60A010	9/6/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105130294	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130295	60	59	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130296	60	58	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130297	61	56	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130298	61	59	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130299	60	57	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130300	60	58	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130301	61	57	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130302	61	58	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130303	61	60	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130304	61	59	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130305	60	58	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130306	60	57	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130307	60	57	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130308	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130309	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130310	60	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130312	61	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130313	61	57	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130314	61	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130315	60	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130316	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130317	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130318	60	59	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130319	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130320	60	58	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130321	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130322	60	59	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
105130507	62	60	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130508	60	58	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130510	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130511	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130512	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130513	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
46018	520724	Comanco	Blanding, UT	HDE060A010	9/6/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130514	62	58	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130515	62	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130516	61	59	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130517	61	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130518	61	58	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130519	61	57	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130520	61	59	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130521	61	58	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130522	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130523	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130524	61	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130525	60	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130526	60	58	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130527	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130528	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130529	61	58	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130530	60	57	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130531	61	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130532	60	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10

Laboratory Manager:

GSE-8.2.4-029 Rev -- 03/05

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19103 Gundle Road - Houston, Texas 77073

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/08/03 16:12:54

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
UNPX 12312469

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195823

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.130		
Flow Index 190C 21.6kg	g/10mi	16.3	13.0	18.0
Melt Flow Ratio	---	125.3		
Density Annealed 15C/min	g/cc	0.9377	0.9360	0.9390
Oxydative Induction Time	min	204	130	

*** End

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PETROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA
Contact
DON BOHAC
Your reference

Your material number

Quality certificate

Date
2006/08/04 17:07:46
Delivery item
S-7000 PETROMONT HDPE-7000
Delivery number and item

Order number and item

Vehicule
UNPX 122969

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195836

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.135		
Flow Index 190C 21.6kg	g/10mi	16.7	13.0	18.0
Melt Flow Ratio	---	123.8		
Density Annealed 15C/min	g/cc	0.9378	0.9360	0.9390
Oxydative Induction Time	min	215	130	

End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 12 September 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 25-9	Revision No.: -	Contractor Submittal No.: 25-9
Specification Section(s): 02770	Date of Submittal Report: 12 September 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Keaton Botelho	9/12/06		9/12/06
Prepared by Keaton Botelho	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	25 - 9	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/12/06 **By:** _____

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560
105130257	195426	HDE060A010	HDE060A010	8/16/2006	560
105130260	195426	HDE060A010	HDE060A010	8/16/2006	560

Order 48018
Customer Comanco
Site . IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130261	195427	HDE060A010	HDE060A010	8/16/2006	560
105130262	195427	HDE060A010	HDE060A010	8/16/2006	560
105130263	195427	HDE060A010	HDE060A010	8/16/2006	560
105130264	195427	HDE060A010	HDE060A010	8/16/2006	560
105130265	195427	HDE060A010	HDE060A010	8/16/2006	560
105130266	195427	HDE060A010	HDE060A010	8/16/2006	560
105130267	195427	HDE060A010	HDE060A010	8/16/2006	560
105130268	195427	HDE060A010	HDE060A010	8/17/2006	560
105130269	195427	HDE060A010	HDE060A010	8/17/2006	560
105130270	195427	HDE060A010	HDE060A010	8/17/2006	560
105130271	195427	HDE060A010	HDE060A010	8/17/2006	560
105130272	195427	HDE060A010	HDE060A010	8/17/2006	560
105130273	195427	HDE060A010	HDE060A010	8/17/2006	560
105130274	195427	HDE060A010	HDE060A010	8/17/2006	560
105130275	195427	HDE060A010	HDE060A010	8/17/2006	560
105130277	195427	HDE060A010	HDE060A010	8/17/2006	560
105130278	195427	HDE060A010	HDE060A010	8/17/2006	560
105130279	195427	HDE060A010	HDE060A010	8/17/2006	560
105130280	195427	HDE060A010	HDE060A010	8/17/2006	560
105130281	195430	HDE060A010	HDE060A010	8/18/2006	560
105130282	195430	HDE060A010	HDE060A010	8/18/2006	560
105130283	195430	HDE060A010	HDE060A010	8/18/2006	560
105130284	195430	HDE060A010	HDE060A010	8/18/2006	560
105130285	195430	HDE060A010	HDE060A010	8/18/2006	560
105130286	195430	HDE060A010	HDE060A010	8/18/2006	560
105130287	195430	HDE060A010	HDE060A010	8/18/2006	560
105130288	195430	HDE060A010	HDE060A010	8/18/2006	560
105130289	195430	HDE060A010	HDE060A010	8/18/2006	560
105130290	195430	HDE060A010	HDE060A010	8/18/2006	560
105130291	195430	HDE060A010	HDE060A010	8/18/2006	560
105130292	195430	HDE060A010	HDE060A010	8/18/2006	560
105130293	195430	HDE060A010	HDE060A010	8/18/2006	560
105130294	195430	HDE060A010	HDE060A010	8/19/2006	560
105130295	195430	HDE060A010	HDE060A010	8/19/2006	560
105130296	195430	HDE060A010	HDE060A010	8/19/2006	560
105130297	195430	HDE060A010	HDE060A010	8/19/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130298	195384	HDE060A010	HDE060A010	8/19/2006	560
105130299	195384	HDE060A010	HDE060A010	8/19/2006	560
105130300	195384	HDE060A010	HDE060A010	8/19/2006	560
105130301	195384	HDE060A010	HDE060A010	8/19/2006	560
105130302	195384	HDE060A010	HDE060A010	8/19/2006	560
105130303	195384	HDE060A010	HDE060A010	8/19/2006	560
105130304	195384	HDE060A010	HDE060A010	8/19/2006	560
105130305	195384	HDE060A010	HDE060A010	8/19/2006	560
105130306	195384	HDE060A010	HDE060A010	8/20/2006	560
105130307	195384	HDE060A010	HDE060A010	8/20/2006	560
105130308	195384	HDE060A010	HDE060A010	8/20/2006	560
105130309	195384	HDE060A010	HDE060A010	8/20/2006	560
105130310	195384	HDE060A010	HDE060A010	8/20/2006	560
105130312	195384	HDE060A010	HDE060A010	8/20/2006	560
105130313	195384	HDE060A010	HDE060A010	8/20/2006	560
105130314	195384	HDE060A010	HDE060A010	8/20/2006	560
105130315	195384	HDE060A010	HDE060A010	8/20/2006	560
105130316	195384	HDE060A010	HDE060A010	8/20/2006	560
105130317	195384	HDE060A010	HDE060A010	8/20/2006	560
105130318	195384	HDE060A010	HDE060A010	8/20/2006	560
105130319	195384	HDE060A010	HDE060A010	8/21/2006	560
105130320	195384	HDE060A010	HDE060A010	8/21/2006	560
105130321	195384	HDE060A010	HDE060A010	8/21/2006	560
105130322	195384	HDE060A010	HDE060A010	8/21/2006	560
105130507	195823	HDE060A010	HDE060A010	9/4/2006	560
105130508	195823	HDE060A010	HDE060A010	9/4/2006	560
105130510	195823	HDE060A010	HDE060A010	9/4/2006	560
105130511	195823	HDE060A010	HDE060A010	9/4/2006	560
105130512	195823	HDE060A010	HDE060A010	9/4/2006	560
105130513	195823	HDE060A010	HDE060A010	9/4/2006	560
105130514	195823	HDE060A010	HDE060A010	9/4/2006	560
105130515	195823	HDE060A010	HDE060A010	9/4/2006	560
105130516	195823	HDE060A010	HDE060A010	9/4/2006	560
105130517	195823	HDE060A010	HDE060A010	9/4/2006	560
105130518	195823	HDE060A010	HDE060A010	9/4/2006	560
105130519	195823	HDE060A010	HDE060A010	9/5/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130520	195823	HDE060A010	HDE060A010	9/5/2006	560
105130521	195823	HDE060A010	HDE060A010	9/5/2006	560
105130522	195823	HDE060A010	HDE060A010	9/5/2006	560
105130523	195836	HDE060A010	HDE060A010	9/5/2006	560
105130524	195836	HDE060A010	HDE060A010	9/5/2006	560
105130525	195836	HDE060A010	HDE060A010	9/5/2006	560
105130526	195836	HDE060A010	HDE060A010	9/5/2006	560
105130527	195836	HDE060A010	HDE060A010	9/5/2006	560
105130528	195836	HDE060A010	HDE060A010	9/5/2006	560
105130529	195836	HDE060A010	HDE060A010	9/5/2006	560
105130530	195836	HDE060A010	HDE060A010	9/5/2006	560
105130531	195836	HDE060A010	HDE060A010	9/6/2006	560
105130532	195836	HDE060A010	HDE060A010	9/6/2006	560
105130533	195836	HDE060A010	HDE060A010	9/6/2006	560
105130534	195836	HDE060A010	HDE060A010	9/6/2006	560
105130536	195836	HDE060A010	HDE060A010	9/6/2006	560
105130537	195831	HDE060A010	HDE060A010	9/6/2006	560
105130538	195831	HDE060A010	HDE060A010	9/6/2006	560
105130539	195831	HDE060A010	HDE060A010	9/6/2006	560
105130540	195831	HDE060A010	HDE060A010	9/6/2006	560
105130541	195831	HDE060A010	HDE060A010	9/6/2006	560
105130564	195831	HDE060A010	HDE060A010	9/8/2006	560
105130565	195831	HDE060A010	HDE060A010	9/8/2006	560
105130566	195831	HDE060A010	HDE060A010	9/8/2006	560
105130567	195831	HDE060A010	HDE060A010	9/8/2006	560
105130568	195832	HDE060A010	HDE060A010	9/8/2006	560
105130569	195832	HDE060A010	HDE060A010	9/8/2006	560
105130570	195832	HDE060A010	HDE060A010	9/8/2006	560
105130571	195832	HDE060A010	HDE060A010	9/8/2006	560
105130572	195832	HDE060A010	HDE060A010	9/8/2006	560
105130573	195832	HDE060A010	HDE060A010	9/8/2006	560
105130574	195832	HDE060A010	HDE060A010	9/9/2006	560
105130575	195832	HDE060A010	HDE060A010	9/9/2006	560
105130576	195832	HDE060A010	HDE060A010	9/9/2006	560
105130577	195832	HDE060A010	HDE060A010	9/9/2006	560
105130578	195832	HDE060A010	HDE060A010	9/9/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130579	195832	HDE060A010	HDE060A010	9/9/2006	560
105130580	195832	HDE060A010	HDE060A010	9/9/2006	560
105130581	195832	HDE060A010	HDE060A010	9/9/2006	560
105130582	195832	HDE060A010	HDE060A010	9/9/2006	560
105130583	195832	HDE060A010	HDE060A010	9/9/2006	560
105130584	195832	HDE060A010	HDE060A010	9/9/2006	560
105130585	195832	HDE060A010	HDE060A010	9/9/2006	560
105130586	195832	HDE060A010	HDE060A010	9/9/2006	560
105130587	195832	HDE060A010	HDE060A010	9/9/2006	560
105130588	195832	HDE060A010	HDE060A010	9/10/2006	560
105130589	195832	HDE060A010	HDE060A010	9/10/2006	560
105130590	195832	HDE060A010	HDE060A010	9/10/2006	560
105130591	195832	HDE060A010	HDE060A010	9/10/2006	560
105130592	195832	HDE060A010	HDE060A010	9/10/2006	560
105130593	195832	HDE060A010	HDE060A010	9/10/2006	560
105130595	195832	HDE060A010	HDE060A010	9/10/2006	560
105130596	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130597	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130598	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130599	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130600	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130601	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130602	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130603	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130604	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130605	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130606	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130607	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130608	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130610	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130612	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130613	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130614	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130615	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130616	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130617	8261057	HDE060A010	HDE060A010	9/12/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130618	8261057	HDE060A010	HDE060A010	9/12/2006	560

g Technology, Inc

Roll Test Da[illegible]eport

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/12/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10

Roll Test D Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/12/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10

Roll Test Da[illegible] Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/12/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130257	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130260	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130261	60	56	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130262	60	58	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130263	61	57	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130264	60	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130265	62	59	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130266	62	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130267	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130268	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130269	62	58	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130270	61	57	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130271	61	59	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130272	61	58	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130273	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130274	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130275	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130277	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130278	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130279	62	60	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130280	61	60	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130281	61	59	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130282	60	57	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130283	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130284	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130285	61	59	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130286	61	59	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130287	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130288	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130289	60	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130290	61	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10

Roll Test Da[illegible]eport

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/12/2006 *Modified

	ASTM D 5199		ASTM D638, Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130291	60	58	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130292	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130293	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130294	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130295	60	59	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130296	60	58	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130297	61	56	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130298	61	59	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130299	60	57	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130300	60	58	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130301	61	57	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130302	61	58	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130303	61	60	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130304	61	59	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130305	60	58	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130306	60	57	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130307	60	57	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130308	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130309	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130310	60	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130312	61	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130313	61	57	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130314	61	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130315	60	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130316	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130317	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130318	60	59	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130319	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130320	60	58	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130321	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130322	60	59	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
105130507	62	60	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130508	60	58	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10

Roll Test Da[illegible]eport

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/12/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130510	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130511	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130512	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130513	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130514	62	58	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130515	62	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130516	61	59	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130517	61	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130518	61	58	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130519	61	57	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130520	61	59	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130521	61	58	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130522	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130523	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130524	61	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130525	60	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130526	60	58	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130527	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130528	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130529	61	58	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130530	60	57	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130531	61	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130532	60	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130533	61	58	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130534	61	59	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130536	60	58	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130537	60	59	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130538	61	60	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130539	61	58	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130540	60	57	144	146	301	286	17	15	866	800	48	50	148	0.945	2.53	10
105130541	60	59	144	146	301	286	17	15	866	800	48	50	148	0.945	2.53	10
105130564	60	58	141	144	305	302	16	18	913	875	49	50	145	0.947	2.55	10
105130565	60	58	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10

Roll Test Da. .eport

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/12/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130566	60	57	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10
105130567	62	60	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10
105130568	61	60	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130569	62	60	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130570	62	59	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130571	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130572	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130573	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130574	61	58	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130575	60	58	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130576	60	59	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130577	60	58	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130578	60	59	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130579	60	59	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130580	60	59	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130581	61	60	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130582	62	59	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130583	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130584	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130585	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130586	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130587	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130588	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130589	61	59	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130590	61	58	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130591	61	59	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130592	60	57	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130593	60	57	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130595	60	58	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130596	60	58	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130597	61	59	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130598	61	58	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130599	61	58	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10

Roll Test D[illegible] Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/12/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
Roll No.	Average Thickness (mils) every roll	Minimum Thickness (mils)	TD Strength @ Yield (ppi) every 3rd	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs) every 3rd	Puncture Resistance (lbs) every 3rd	Density (g/cc) every 3rd	Carbon Black Content (%) every 3rd	Carbon Black Dispersion Views in Cat1 - Cat2 every 3rd
105130600	61	58	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10
105130601	61	59	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10
105130602	61	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130603	61	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130604	60	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130605	60	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130606	61	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130607	60	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130608	60	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130610	61	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130612	61	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130613	60	56	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130614	61	59	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130615	61	58	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130616	61	59	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130617	61	59	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130618	61	58	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9

Laboratory Manager: Jane Allen

GSE-8.2.4-029 Rev – 03/05

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19103 Gundle Road - Houston, Texas 77073

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/08/04 17:07:23

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
UNPX 122058

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195831

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.120		
Flow Index 190C 21.6kg	g/10mi	15.9	13.0	18.0
Melt Flow Ratio	---	130.5		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	208	130	

** End **

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA

Contact
DON BOHAC

Your reference

Your material number

Quality certificate

Date
2006/08/04 17:08:14

Delivery item
S-7000 PETROMONT HDPE-7000

Delivery number and item

Order number and item

Vehicule
1/NCX815872

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195832

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.130		
Flow Index 190C 21.6kg	g/10mi	16.1	13.0	18.0
Melt Flow Ratio	---	124.5		
Density Annealed 15C/min	g/cc	0.9380	0.9360	0.9390
Oxydative Induction Time	min	208	130	

*** End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

PÉTROMONT

Petromont and Company, Limited Partnership
Petromont Inc., Sole General Partner
10455 Metropolitain East
Montreal-East, QC, H1B 1A1
CANADA
Tel: 514-640-7400
http://www.petromont.qc.ca

Customer information

GSE LINING TECHNOLOGY INC
PETROMONT INC.C/O
14732 WESTFIELD
WESTFIELD TX 77090
USA
Contact
DON BOHAC
Your reference

Your material number

Quality certificate

Date
2006/08/04 17:07:46
Delivery item
S-7000 PETROMONT HDPE-7000
Delivery number and item

Order number and item

Vehicule
UNPX 122969

Material : S-7000 PETROMONT HDPE-7000
Batch MM 195836

Characteristics	Unit	Value	Lower limit	Upper limit
Melt index 190C 2.16 kg	g/10mi	0.135		
Flow Index 190C 21.6kg	g/10mi	16.7	13.0	18.0
Melt Flow Ratio	---	123.8		
Density Annealed 15C/min	g/cc	0.9378	0.9360	0.9390
Oxydative Induction Time	min	215	130	

End ***

Daniel L'Archevêque
Quality Control Laboratory
Authorized representative

Responsible Care®
Beyond what's required.

Petromont certifies that the batch number of the product list above meet its internal manufacturing specifications for the properties listed above.

Chevron Phillips Chemical Company LP

CoA Date: 08/21/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC 19103 GUNDLE ROAD WESTFIELD TX 77090 USA	CPC Delivery #: 87214205 PO #: 37745 Weight: 185300 LB Ship Date: 08/21/2006 Package: BULK
Recipient: Phouangsavanh Fax:	Mode: Hopper Car Car #: CPCX805169 Seal No: 201609

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8261057

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	12.6	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		07/17/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
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SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 15 September 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 25-10	Revision No.: -	Contractor Submittal No.: 25-10
Specification Section(s): 02770	Date of Submittal Report: 15 September 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow 9/15/06

Prepared by
Meghan Lithgow

Date 9/15/06

Engineer-of-Record
Gregory T. Corcoran, P.E

Date 9/15/06

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	25 - 10	[X]	Original Submittal	[ ]	Supplement
Submitted:		[ ]	Resubmittal	[ ]	Information Only
No. of Copies:	2				

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:				
	[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
	[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
	[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/15/06 By: _____

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
46018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4533	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10

Living Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130257	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130260	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130261	60	56	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130262	60	58	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130263	61	57	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130264	60	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130265	62	59	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130266	62	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130267	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130268	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130269	62	58	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130270	61	57	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130271	61	59	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130272	61	58	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130273	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130274	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130275	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130277	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130278	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130279	62	60	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130280	61	60	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130281	61	59	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130282	60	57	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130283	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130284	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130285	61	59	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130286	61	59	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130287	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130288	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130289	60	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130290	61	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10

Lining Technology Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130291	60	58	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130292	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130293	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130294	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130295	60	59	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130296	60	58	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130297	61	56	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130298	61	59	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130299	60	57	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130300	60	58	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130301	61	57	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130302	61	58	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130303	61	60	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130304	61	59	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130305	60	58	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130306	60	57	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130307	60	57	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130308	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130309	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130310	60	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130312	61	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130313	61	57	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130314	61	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130315	60	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130316	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130317	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130318	60	59	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130319	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130320	60	58	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130321	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130322	60	59	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
105130507	62	60	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130508	60	58	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd									every 3rd	every 3rd	every 3rd	every 3rd	every 3rd
105130510	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130511	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130512	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130513	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130514	62	58	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130515	62	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130516	61	59	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130517	61	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130518	61	58	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130519	61	57	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130520	61	59	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130521	61	58	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130522	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130523	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130524	61	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130525	60	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130526	60	58	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130527	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130528	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130529	61	58	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130530	60	57	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130531	61	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130532	60	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130533	61	58	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130534	61	59	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130536	60	58	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130537	60	59	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130538	61	60	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130539	61	58	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130540	60	57	144	146	301	286	17	15	866	800	48	50	148	0.945	2.53	10
105130541	60	59	144	146	301	286	17	15	866	800	48	50	148	0.945	2.53	10
105130564	60	58	141	144	305	302	16	18	913	875	49	50	145	0.947	2.55	10
105130565	60	58	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10

Liming Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130566	60	57	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10
105130567	62	60	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10
105130568	61	60	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130569	62	60	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130570	62	59	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130571	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130572	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130573	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130574	61	58	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130575	60	58	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130576	60	59	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130577	60	58	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130578	60	59	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130579	60	59	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130580	60	59	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130581	61	60	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130582	62	59	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130583	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130584	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130585	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130586	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130587	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130588	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130589	61	59	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130590	61	58	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130591	61	59	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130592	60	57	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130593	60	57	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130595	60	58	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130596	60	58	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130597	61	59	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130598	61	58	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130599	61	58	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @Yield	MD Elongation @Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130600	61	58	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10
105130601	61	59	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10
105130602	61	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130603	61	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130604	60	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130605	60	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130606	61	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130607	60	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130608	60	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130610	61	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130612	61	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130613	60	56	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130614	61	59	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130615	61	58	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130616	61	59	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130617	61	59	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130618	61	58	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130619	61	58	141	134	318	305	17	19	916	860	46	48	137	0.945	2.49	10
105130620	61	58	141	134	318	305	17	19	916	860	46	48	137	0.945	2.49	10
105130621	60	57	141	134	318	305	17	19	916	860	46	48	137	0.945	2.49	10
105130622	60	57	148	143	307	297	17	18	873	826	47	49	148	0.946	2.58	10
105130623	61	57	148	143	307	297	17	18	873	826	47	49	148	0.946	2.58	10
105130624	60	57	148	143	307	297	17	18	873	826	47	49	148	0.946	2.58	10
105130625	61	58	145	139	299	296	17	19	860	831	47	49	148	0.946	2.49	10
105130626	60	57	145	139	299	296	17	19	860	831	47	49	148	0.946	2.49	10
105130627	61	57	145	139	299	296	17	19	860	831	47	49	148	0.946	2.49	10
105130628	60	58	173	136	307	288	15	19	869	800	48	48	145	0.946	2.59	10
105130629	60	59	173	136	307	288	15	19	869	800	48	48	145	0.946	2.59	10
105130630	60	58	173	136	307	288	15	19	869	800	48	48	145	0.946	2.59	10
105130631	60	58	178	138	317	306	15	15	888	825	50	50	150	0.946	2.29	9
105130632	61	58	178	138	317	306	15	15	888	825	50	50	150	0.946	2.29	9
105130633	60	58	178	138	317	306	15	15	888	825	50	50	150	0.946	2.29	9
105130634	60	56	143	136	311	294	17	18	891	825	44	46	134	0.945	2.39	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/14/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 3rd								every 3rd		every 3rd	every 3rd	every 3rd	every 3rd
105130635	61	55	143	136	311	294	17	18	891	825	44	46	134	0.945	2.39	10
105130636	61	56	143	136	311	294	17	18	891	825	44	46	134	0.945	2.39	10
105130637	61	57	137	139	308	285	17	19	844	799	46	48	148	0.945	2.48	10
105130638	61	58	137	139	308	285	17	19	844	799	46	48	148	0.945	2.48	10
105130639	60	57	137	139	308	285	17	19	844	799	46	48	148	0.945	2.48	10
105130640	61	57	140	138	302	299	17	18	896	844	48	45	152	0.945	2.45	10
105130641	60	58	140	138	302	299	17	18	896	844	48	45	152	0.945	2.45	10
105130642	61	57	140	138	302	299	17	18	896	844	48	45	152	0.945	2.45	10
105130643	60	57	153	134	311	307	17	20	876	851	44	47	142	0.945	2.57	10
105130644	60	57	153	134	311	307	17	20	876	851	44	47	142	0.945	2.57	10
105130645	61	57	153	134	311	307	17	20	876	851	44	47	142	0.945	2.57	10
105130646	61	58	151	140	316	291	17	18	873	788	48	49	150	0.946	2.51	10
105130647	61	57	151	140	316	291	17	18	873	788	48	49	150	0.946	2.51	10
105130648	61	58	151	140	316	291	17	18	873	788	48	49	150	0.946	2.51	10

Laboratory Manager:

GSE-8.2.4-029 Rev – 03/05

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19103 Gundle Road - Houston, Texas 77073

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560
105130257	195426	HDE060A010	HDE060A010	8/16/2006	560
105130260	195426	HDE060A010	HDE060A010	8/16/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130261	195427	HDE060A010	HDE060A010	8/16/2006	560
105130262	195427	HDE060A010	HDE060A010	8/16/2006	560
105130263	195427	HDE060A010	HDE060A010	8/16/2006	560
105130264	195427	HDE060A010	HDE060A010	8/16/2006	560
105130265	195427	HDE060A010	HDE060A010	8/16/2006	560
105130266	195427	HDE060A010	HDE060A010	8/16/2006	560
105130267	195427	HDE060A010	HDE060A010	8/16/2006	560
105130268	195427	HDE060A010	HDE060A010	8/17/2006	560
105130269	195427	HDE060A010	HDE060A010	8/17/2006	560
105130270	195427	HDE060A010	HDE060A010	8/17/2006	560
105130271	195427	HDE060A010	HDE060A010	8/17/2006	560
105130272	195427	HDE060A010	HDE060A010	8/17/2006	560
105130273	195427	HDE060A010	HDE060A010	8/17/2006	560
105130274	195427	HDE060A010	HDE060A010	8/17/2006	560
105130275	195427	HDE060A010	HDE060A010	8/17/2006	560
105130277	195427	HDE060A010	HDE060A010	8/17/2006	560
105130278	195427	HDE060A010	HDE060A010	8/17/2006	560
105130279	195427	HDE060A010	HDE060A010	8/17/2006	560
105130280	195427	HDE060A010	HDE060A010	8/17/2006	560
105130281	195430	HDE060A010	HDE060A010	8/18/2006	560
105130282	195430	HDE060A010	HDE060A010	8/18/2006	560
105130283	195430	HDE060A010	HDE060A010	8/18/2006	560
105130284	195430	HDE060A010	HDE060A010	8/18/2006	560
105130285	195430	HDE060A010	HDE060A010	8/18/2006	560
105130286	195430	HDE060A010	HDE060A010	8/18/2006	560
105130287	195430	HDE060A010	HDE060A010	8/18/2006	560
105130288	195430	HDE060A010	HDE060A010	8/18/2006	560
105130289	195430	HDE060A010	HDE060A010	8/18/2006	560
105130290	195430	HDE060A010	HDE060A010	8/18/2006	560
105130291	195430	HDE060A010	HDE060A010	8/18/2006	560
105130292	195430	HDE060A010	HDE060A010	8/18/2006	560
105130293	195430	HDE060A010	HDE060A010	8/18/2006	560
105130294	195430	HDE060A010	HDE060A010	8/19/2006	560
105130295	195430	HDE060A010	HDE060A010	8/19/2006	560
105130296	195430	HDE060A010	HDE060A010	8/19/2006	560
105130297	195430	HDE060A010	HDE060A010	8/19/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130298	195384	HDE060A010	HDE060A010	8/19/2006	560
105130299	195384	HDE060A010	HDE060A010	8/19/2006	560
105130300	195384	HDE060A010	HDE060A010	8/19/2006	560
105130301	195384	HDE060A010	HDE060A010	8/19/2006	560
105130302	195384	HDE060A010	HDE060A010	8/19/2006	560
105130303	195384	HDE060A010	HDE060A010	8/19/2006	560
105130304	195384	HDE060A010	HDE060A010	8/19/2006	560
105130305	195384	HDE060A010	HDE060A010	8/19/2006	560
105130306	195384	HDE060A010	HDE060A010	8/20/2006	560
105130307	195384	HDE060A010	HDE060A010	8/20/2006	560
105130308	195384	HDE060A010	HDE060A010	8/20/2006	560
105130309	195384	HDE060A010	HDE060A010	8/20/2006	560
105130310	195384	HDE060A010	HDE060A010	8/20/2006	560
105130312	195384	HDE060A010	HDE060A010	8/20/2006	560
105130313	195384	HDE060A010	HDE060A010	8/20/2006	560
105130314	195384	HDE060A010	HDE060A010	8/20/2006	560
105130315	195384	HDE060A010	HDE060A010	8/20/2006	560
105130316	195384	HDE060A010	HDE060A010	8/20/2006	560
105130317	195384	HDE060A010	HDE060A010	8/20/2006	560
105130318	195384	HDE060A010	HDE060A010	8/20/2006	560
105130319	195384	HDE060A010	HDE060A010	8/21/2006	560
105130320	195384	HDE060A010	HDE060A010	8/21/2006	560
105130321	195384	HDE060A010	HDE060A010	8/21/2006	560
105130322	195384	HDE060A010	HDE060A010	8/21/2006	560
105130507	195823	HDE060A010	HDE060A010	9/4/2006	560
105130508	195823	HDE060A010	HDE060A010	9/4/2006	560
105130510	195823	HDE060A010	HDE060A010	9/4/2006	560
105130511	195823	HDE060A010	HDE060A010	9/4/2006	560
105130512	195823	HDE060A010	HDE060A010	9/4/2006	560
105130513	195823	HDE060A010	HDE060A010	9/4/2006	560
105130514	195823	HDE060A010	HDE060A010	9/4/2006	560
105130515	195823	HDE060A010	HDE060A010	9/4/2006	560
105130516	195823	HDE060A010	HDE060A010	9/4/2006	560
105130517	195823	HDE060A010	HDE060A010	9/4/2006	560
105130518	195823	HDE060A010	HDE060A010	9/4/2006	560
105130519	195823	HDE060A010	HDE060A010	9/5/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130520	195823	HDE060A010	HDE060A010	9/5/2006	560
105130521	195823	HDE060A010	HDE060A010	9/5/2006	560
105130522	195823	HDE060A010	HDE060A010	9/5/2006	560
105130523	195836	HDE060A010	HDE060A010	9/5/2006	560
105130524	195836	HDE060A010	HDE060A010	9/5/2006	560
105130525	195836	HDE060A010	HDE060A010	9/5/2006	560
105130526	195836	HDE060A010	HDE060A010	9/5/2006	560
105130527	195836	HDE060A010	HDE060A010	9/5/2006	560
105130528	195836	HDE060A010	HDE060A010	9/5/2006	560
105130529	195836	HDE060A010	HDE060A010	9/5/2006	560
105130530	195836	HDE060A010	HDE060A010	9/5/2006	560
105130531	195836	HDE060A010	HDE060A010	9/6/2006	560
105130532	195836	HDE060A010	HDE060A010	9/6/2006	560
105130533	195836	HDE060A010	HDE060A010	9/6/2006	560
105130534	195836	HDE060A010	HDE060A010	9/6/2006	560
105130536	195836	HDE060A010	HDE060A010	9/6/2006	560
105130537	195831	HDE060A010	HDE060A010	9/6/2006	560
105130538	195831	HDE060A010	HDE060A010	9/6/2006	560
105130539	195831	HDE060A010	HDE060A010	9/6/2006	560
105130540	195831	HDE060A010	HDE060A010	9/6/2006	560
105130541	195831	HDE060A010	HDE060A010	9/6/2006	560
105130564	195831	HDE060A010	HDE060A010	9/8/2006	560
105130565	195831	HDE060A010	HDE060A010	9/8/2006	560
105130566	195831	HDE060A010	HDE060A010	9/8/2006	560
105130567	195831	HDE060A010	HDE060A010	9/8/2006	560
105130568	195832	HDE060A010	HDE060A010	9/8/2006	560
105130569	195832	HDE060A010	HDE060A010	9/8/2006	560
105130570	195832	HDE060A010	HDE060A010	9/8/2006	560
105130571	195832	HDE060A010	HDE060A010	9/8/2006	560
105130572	195832	HDE060A010	HDE060A010	9/8/2006	560
105130573	195832	HDE060A010	HDE060A010	9/8/2006	560
105130574	195832	HDE060A010	HDE060A010	9/9/2006	560
105130575	195832	HDE060A010	HDE060A010	9/9/2006	560
105130576	195832	HDE060A010	HDE060A010	9/9/2006	560
105130577	195832	HDE060A010	HDE060A010	9/9/2006	560
105130578	195832	HDE060A010	HDE060A010	9/9/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130579	195832	HDE060A010	HDE060A010	9/9/2006	560
105130580	195832	HDE060A010	HDE060A010	9/9/2006	560
105130581	195832	HDE060A010	HDE060A010	9/9/2006	560
105130582	195832	HDE060A010	HDE060A010	9/9/2006	560
105130583	195832	HDE060A010	HDE060A010	9/9/2006	560
105130584	195832	HDE060A010	HDE060A010	9/9/2006	560
105130585	195832	HDE060A010	HDE060A010	9/9/2006	560
105130586	195832	HDE060A010	HDE060A010	9/9/2006	560
105130587	195832	HDE060A010	HDE060A010	9/9/2006	560
105130588	195832	HDE060A010	HDE060A010	9/10/2006	560
105130589	195832	HDE060A010	HDE060A010	9/10/2006	560
105130590	195832	HDE060A010	HDE060A010	9/10/2006	560
105130591	195832	HDE060A010	HDE060A010	9/10/2006	560
105130592	195832	HDE060A010	HDE060A010	9/10/2006	560
105130593	195832	HDE060A010	HDE060A010	9/10/2006	560
105130595	195832	HDE060A010	HDE060A010	9/10/2006	560
105130596	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130597	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130598	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130599	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130600	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130601	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130602	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130603	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130604	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130605	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130606	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130607	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130608	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130610	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130612	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130613	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130614	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130615	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130616	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130617	8261057	HDE060A010	HDE060A010	9/12/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130618	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130619	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130620	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130621	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130622	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130623	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130624	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130625	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130626	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130627	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130628	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130629	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130630	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130631	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130632	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130633	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130634	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130635	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130636	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130637	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130638	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130639	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130640	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130641	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130642	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130643	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130644	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130645	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130646	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130647	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130648	8261189	HDE060A010	HDE060A010	9/14/2006	560

Chevron Phillips Chemical Company LP

CoA Date: 09/01/2006

Certificate of Analysis

Shipped To: GSE LINING TECHNOLOGY INC: HC
19103 GUNDLE ROAD
WESTFIELD TX 77090
USA

Recipient: Phouangsavanh
Fax:

CPC Delivery #: 87222294
PO # 37745
Weight: 187600 LB
Ship Date: 08/31/2006
Package: BULK
Mode: Hopper Car
Car #: CPCX002206
Seal No: 201270

Product:
MARLEX POLYETHYLENE K306 BULK

Lot Number: 8261189

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.1	g/10mi
HLMI Flow Rate	ASTM D1238	11.9	g/10mi
Density	ASTM D1505	0.936	g/cm3
Production Date		08/12/2006	

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP.
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Jackie Edwards
Certification Systems Specialist

For CoA questions contact Tom Scheirman at 832-813-4637

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 29 September 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 25-11	Revision No.: -	Contractor Submittal No.: 25-11
Specification Section(s): 02770	Date of Submittal Report: 29 September 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Meghan Lithgow		Gregory T. Corcoran, P.E	9/29/06

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 25 - 11

Submitted:

No. of Copies: 2

[X] Original Submittal [ ] Supplement

[ ] Resubmittal [ ] Information Only

Submittal Description: Geomembrane Roll Test Data Reports

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received:

No. of Copies Returned:

Status:

[ ] Code 1 - Approved

[ ] Code 2 - Approved As Noted

[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

GSE Roll Allocation

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105129441	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129442	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129443	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129444	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129445	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129446	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129447	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129448	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129449	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129450	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129451	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129452	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129453	8260613	HDE060A010	HDE060A010	6/16/2006	560
105129454	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129455	8260613	HDE060A010	HDE060A010	6/17/2006	560
105129458	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129459	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129460	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129461	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129462	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129463	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129464	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129465	8260742	HDE060A010	HDE060A010	6/17/2006	560
105129466	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129467	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129468	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129470	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129471	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129472	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129473	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129474	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129475	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129476	8260742	HDE060A010	HDE060A010	6/18/2006	560
105129478	8260742	HDE060A010	HDE060A010	6/18/2006	560

Order 48018
Customer Comanco
Site IUC White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130222	195412	HDE060A010	HDE060A010	8/13/2006	560
105130223	195412	HDE060A010	HDE060A010	8/13/2006	560
105130224	195412	HDE060A010	HDE060A010	8/13/2006	560
105130225	195412	HDE060A010	HDE060A010	8/13/2006	560
105130227	195412	HDE060A010	HDE060A010	8/13/2006	560
105130228	195412	HDE060A010	HDE060A010	8/13/2006	560
105130229	195412	HDE060A010	HDE060A010	8/13/2006	560
105130230	195412	HDE060A010	HDE060A010	8/14/2006	560
105130231	195412	HDE060A010	HDE060A010	8/14/2006	560
105130232	195412	HDE060A010	HDE060A010	8/14/2006	560
105130233	195412	HDE060A010	HDE060A010	8/14/2006	560
105130234	195412	HDE060A010	HDE060A010	8/14/2006	560
105130235	195412	HDE060A010	HDE060A010	8/14/2006	560
105130236	195412	HDE060A010	HDE060A010	8/14/2006	560
105130237	195412	HDE060A010	HDE060A010	8/14/2006	560
105130238	195412	HDE060A010	HDE060A010	8/14/2006	560
105130239	195426	HDE060A010	HDE060A010	8/14/2006	560
105130240	195426	HDE060A010	HDE060A010	8/14/2006	560
105130241	195426	HDE060A010	HDE060A010	8/14/2006	560
105130242	195426	HDE060A010	HDE060A010	8/15/2006	560
105130243	195426	HDE060A010	HDE060A010	8/15/2006	560
105130244	195426	HDE060A010	HDE060A010	8/15/2006	560
105130245	195426	HDE060A010	HDE060A010	8/15/2006	560
105130246	195426	HDE060A010	HDE060A010	8/15/2006	560
105130247	195426	HDE060A010	HDE060A010	8/15/2006	560
105130248	195426	HDE060A010	HDE060A010	8/15/2006	560
105130249	195426	HDE060A010	HDE060A010	8/15/2006	560
105130250	195426	HDE060A010	HDE060A010	8/15/2006	560
105130251	195426	HDE060A010	HDE060A010	8/15/2006	560
105130252	195426	HDE060A010	HDE060A010	8/15/2006	560
105130253	195426	HDE060A010	HDE060A010	8/15/2006	560
105130254	195426	HDE060A010	HDE060A010	8/15/2006	560
105130255	195426	HDE060A010	HDE060A010	8/16/2006	560
105130256	195426	HDE060A010	HDE060A010	8/16/2006	560
105130257	195426	HDE060A010	HDE060A010	8/16/2006	560
105130260	195426	HDE060A010	HDE060A010	8/16/2006	560

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Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130261	195427	HDE060A010	HDE060A010	8/16/2006	560
105130262	195427	HDE060A010	HDE060A010	8/16/2006	560
105130263	195427	HDE060A010	HDE060A010	8/16/2006	560
105130264	195427	HDE060A010	HDE060A010	8/16/2006	560
105130265	195427	HDE060A010	HDE060A010	8/16/2006	560
105130266	195427	HDE060A010	HDE060A010	8/16/2006	560
105130267	195427	HDE060A010	HDE060A010	8/16/2006	560
105130268	195427	HDE060A010	HDE060A010	8/17/2006	560
105130269	195427	HDE060A010	HDE060A010	8/17/2006	560
105130270	195427	HDE060A010	HDE060A010	8/17/2006	560
105130271	195427	HDE060A010	HDE060A010	8/17/2006	560
105130272	195427	HDE060A010	HDE060A010	8/17/2006	560
105130273	195427	HDE060A010	HDE060A010	8/17/2006	560
105130274	195427	HDE060A010	HDE060A010	8/17/2006	560
105130275	195427	HDE060A010	HDE060A010	8/17/2006	560
105130277	195427	HDE060A010	HDE060A010	8/17/2006	560
105130278	195427	HDE060A010	HDE060A010	8/17/2006	560
105130279	195427	HDE060A010	HDE060A010	8/17/2006	560
105130280	195427	HDE060A010	HDE060A010	8/17/2006	560
105130281	195430	HDE060A010	HDE060A010	8/18/2006	560
105130282	195430	HDE060A010	HDE060A010	8/18/2006	560
105130283	195430	HDE060A010	HDE060A010	8/18/2006	560
105130284	195430	HDE060A010	HDE060A010	8/18/2006	560
105130285	195430	HDE060A010	HDE060A010	8/18/2006	560
105130286	195430	HDE060A010	HDE060A010	8/18/2006	560
105130287	195430	HDE060A010	HDE060A010	8/18/2006	560
105130288	195430	HDE060A010	HDE060A010	8/18/2006	560
105130289	195430	HDE060A010	HDE060A010	8/18/2006	560
105130290	195430	HDE060A010	HDE060A010	8/18/2006	560
105130291	195430	HDE060A010	HDE060A010	8/18/2006	560
105130292	195430	HDE060A010	HDE060A010	8/18/2006	560
105130293	195430	HDE060A010	HDE060A010	8/18/2006	560
105130294	195430	HDE060A010	HDE060A010	8/19/2006	560
105130295	195430	HDE060A010	HDE060A010	8/19/2006	560
105130296	195430	HDE060A010	HDE060A010	8/19/2006	560
105130297	195430	HDE060A010	HDE060A010	8/19/2006	560

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Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130298	195384	HDE060A010	HDE060A010	8/19/2006	560
105130299	195384	HDE060A010	HDE060A010	8/19/2006	560
105130300	195384	HDE060A010	HDE060A010	8/19/2006	560
105130301	195384	HDE060A010	HDE060A010	8/19/2006	560
105130302	195384	HDE060A010	HDE060A010	8/19/2006	560
105130303	195384	HDE060A010	HDE060A010	8/19/2006	560
105130304	195384	HDE060A010	HDE060A010	8/19/2006	560
105130305	195384	HDE060A010	HDE060A010	8/19/2006	560
105130306	195384	HDE060A010	HDE060A010	8/20/2006	560
105130307	195384	HDE060A010	HDE060A010	8/20/2006	560
105130308	195384	HDE060A010	HDE060A010	8/20/2006	560
105130309	195384	HDE060A010	HDE060A010	8/20/2006	560
105130310	195384	HDE060A010	HDE060A010	8/20/2006	560
105130312	195384	HDE060A010	HDE060A010	8/20/2006	560
105130313	195384	HDE060A010	HDE060A010	8/20/2006	560
105130314	195384	HDE060A010	HDE060A010	8/20/2006	560
105130315	195384	HDE060A010	HDE060A010	8/20/2006	560
105130316	195384	HDE060A010	HDE060A010	8/20/2006	560
105130317	195384	HDE060A010	HDE060A010	8/20/2006	560
105130318	195384	HDE060A010	HDE060A010	8/20/2006	560
105130319	195384	HDE060A010	HDE060A010	8/21/2006	560
105130320	195384	HDE060A010	HDE060A010	8/21/2006	560
105130321	195384	HDE060A010	HDE060A010	8/21/2006	560
105130322	195384	HDE060A010	HDE060A010	8/21/2006	560
105130507	195823	HDE060A010	HDE060A010	9/4/2006	560
105130508	195823	HDE060A010	HDE060A010	9/4/2006	560
105130510	195823	HDE060A010	HDE060A010	9/4/2006	560
105130511	195823	HDE060A010	HDE060A010	9/4/2006	560
105130512	195823	HDE060A010	HDE060A010	9/4/2006	560
105130513	195823	HDE060A010	HDE060A010	9/4/2006	560
105130514	195823	HDE060A010	HDE060A010	9/4/2006	560
105130515	195823	HDE060A010	HDE060A010	9/4/2006	560
105130516	195823	HDE060A010	HDE060A010	9/4/2006	560
105130517	195823	HDE060A010	HDE060A010	9/4/2006	560
105130518	195823	HDE060A010	HDE060A010	9/4/2006	560
105130519	195823	HDE060A010	HDE060A010	9/5/2006	560

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Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130520	195823	HDE060A010	HDE060A010	9/5/2006	560
105130521	195823	HDE060A010	HDE060A010	9/5/2006	560
105130522	195823	HDE060A010	HDE060A010	9/5/2006	560
105130523	195836	HDE060A010	HDE060A010	9/5/2006	560
105130524	195836	HDE060A010	HDE060A010	9/5/2006	560
105130525	195836	HDE060A010	HDE060A010	9/5/2006	560
105130526	195836	HDE060A010	HDE060A010	9/5/2006	560
105130527	195836	HDE060A010	HDE060A010	9/5/2006	560
105130528	195836	HDE060A010	HDE060A010	9/5/2006	560
105130529	195836	HDE060A010	HDE060A010	9/5/2006	560
105130530	195836	HDE060A010	HDE060A010	9/5/2006	560
105130531	195836	HDE060A010	HDE060A010	9/6/2006	560
105130532	195836	HDE060A010	HDE060A010	9/6/2006	560
105130533	195836	HDE060A010	HDE060A010	9/6/2006	560
105130534	195836	HDE060A010	HDE060A010	9/6/2006	560
105130536	195836	HDE060A010	HDE060A010	9/6/2006	560
105130537	195831	HDE060A010	HDE060A010	9/6/2006	560
105130538	195831	HDE060A010	HDE060A010	9/6/2006	560
105130539	195831	HDE060A010	HDE060A010	9/6/2006	560
105130540	195831	HDE060A010	HDE060A010	9/6/2006	560
105130541	195831	HDE060A010	HDE060A010	9/6/2006	560
105130564	195831	HDE060A010	HDE060A010	9/8/2006	560
105130565	195831	HDE060A010	HDE060A010	9/8/2006	560
105130566	195831	HDE060A010	HDE060A010	9/8/2006	560
105130567	195831	HDE060A010	HDE060A010	9/8/2006	560
105130568	195832	HDE060A010	HDE060A010	9/8/2006	560
105130569	195832	HDE060A010	HDE060A010	9/8/2006	560
105130570	195832	HDE060A010	HDE060A010	9/8/2006	560
105130571	195832	HDE060A010	HDE060A010	9/8/2006	560
105130572	195832	HDE060A010	HDE060A010	9/8/2006	560
105130573	195832	HDE060A010	HDE060A010	9/8/2006	560
105130574	195832	HDE060A010	HDE060A010	9/9/2006	560
105130575	195832	HDE060A010	HDE060A010	9/9/2006	560
105130576	195832	HDE060A010	HDE060A010	9/9/2006	560
105130577	195832	HDE060A010	HDE060A010	9/9/2006	560
105130578	195832	HDE060A010	HDE060A010	9/9/2006	560

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Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130579	195832	HDE060A010	HDE060A010	9/9/2006	560
105130580	195832	HDE060A010	HDE060A010	9/9/2006	560
105130581	195832	HDE060A010	HDE060A010	9/9/2006	560
105130582	195832	HDE060A010	HDE060A010	9/9/2006	560
105130583	195832	HDE060A010	HDE060A010	9/9/2006	560
105130584	195832	HDE060A010	HDE060A010	9/9/2006	560
105130585	195832	HDE060A010	HDE060A010	9/9/2006	560
105130586	195832	HDE060A010	HDE060A010	9/9/2006	560
105130587	195832	HDE060A010	HDE060A010	9/9/2006	560
105130588	195832	HDE060A010	HDE060A010	9/10/2006	560
105130589	195832	HDE060A010	HDE060A010	9/10/2006	560
105130590	195832	HDE060A010	HDE060A010	9/10/2006	560
105130591	195832	HDE060A010	HDE060A010	9/10/2006	560
105130592	195832	HDE060A010	HDE060A010	9/10/2006	560
105130593	195832	HDE060A010	HDE060A010	9/10/2006	560
105130595	195832	HDE060A010	HDE060A010	9/10/2006	560
105130596	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130597	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130598	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130599	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130600	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130601	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130602	8261057	HDE060A010	HDE060A010	9/10/2006	560
105130603	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130604	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130605	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130606	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130607	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130608	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130610	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130612	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130613	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130614	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130615	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130616	8261057	HDE060A010	HDE060A010	9/11/2006	560
105130617	8261057	HDE060A010	HDE060A010	9/12/2006	560

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Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130618	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130619	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130620	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130621	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130622	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130623	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130624	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130625	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130626	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130627	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130628	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130629	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130630	8261057	HDE060A010	HDE060A010	9/12/2006	560
105130631	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130632	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130633	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130634	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130635	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130636	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130637	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130638	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130639	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130640	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130641	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130642	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130643	8261189	HDE060A010	HDE060A010	9/13/2006	560
105130644	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130645	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130646	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130647	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130648	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130649	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130650	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130651	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130652	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130653	8261189	HDE060A010	HDE060A010	9/14/2006	560

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Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130654	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130655	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130656	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130657	8261189	HDE060A010	HDE060A010	9/14/2006	560
105130658	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130659	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130660	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130661	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130662	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130663	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130664	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130665	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130666	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130667	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130668	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130669	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130670	8261189	HDE060A010	HDE060A010	9/15/2006	560
105130671	8261189	HDE060A010	HDE060A010	9/16/2006	560
105130672	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130673	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130674	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130675	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130676	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130677	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130678	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130679	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130680	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130681	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130682	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130683	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130684	8261190	HDE060A010	HDE060A010	9/16/2006	560
105130685	8261190	HDE060A010	HDE060A010	9/17/2006	560
105130686	8261190	HDE060A010	HDE060A010	9/17/2006	560
105130687	8261190	HDE060A010	HDE060A010	9/17/2006	560
105130688	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130689	8261190	HDE060A010	HDE060A010	9/17/2006	430

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Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130690	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130691	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130692	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130693	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130694	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130695	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130696	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130697	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130698	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130699	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130700	8261190	HDE060A010	HDE060A010	9/17/2006	430
105130701	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130702	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130703	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130704	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130705	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130706	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130707	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130708	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130710	8261190	HDE060A010	HDE060A010	9/18/2006	430
105130711	8261185	HDE060A010	HDE060A010	9/18/2006	430
105130712	8261185	HDE060A010	HDE060A010	9/18/2006	430
105130713	8261185	HDE060A010	HDE060A010	9/18/2006	430
105130714	8261185	HDE060A010	HDE060A010	9/18/2006	430
105130715	8261185	HDE060A010	HDE060A010	9/18/2006	430
105130717	8261185	HDE060A010	HDE060A010	9/18/2006	420
105130718	8261185	HDE060A010	HDE060A010	9/18/2006	420
105130719	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130720	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130721	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130722	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130723	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130724	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130725	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130726	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130727	8261185	HDE060A010	HDE060A010	9/19/2006	420

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Site IUC.White Mesa Mill Cell 4A

Roll#	*Resin Lot*	*Product Code*	*Description*	*Mfg. Date*	*Length*
105130728	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130729	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130730	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130731	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130732	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130733	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130734	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130735	8261185	HDE060A010	HDE060A010	9/19/2006	420
105130736	8261185	HDE060A010	HDE060A010	9/20/2006	420
105130737	8261185	HDE060A010	HDE060A010	9/20/2006	420
105130738	8261185	HDE060A010	HDE060A010	9/20/2006	420
105130739	8261185	HDE060A010	HDE060A010	9/20/2006	420
105130740	8261185	HDE060A010	HDE060A010	9/20/2006	420
105130741	8261185	HDE060A010	HDE060A010	9/20/2006	420
105130742	8261185	HDE060A010	HDE060A010	9/20/2006	420
105130743	8261185	HDE060A010	HDE060A010	9/20/2006	420

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 4th									every 4th	every 4th	every 4th	every 4th	every 4th
105129441	62	60	158	149	307	299	15	15	826	786	48	50	147	0.945	2.25	10
105129442	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129443	62	59	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129444	62	60	155	144	309	310	17	19	854	840	47	49	151	0.945	2.39	10
105129445	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129446	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129447	61	59	157	152	309	292	17	18	856	780	47	49	148	0.945	2.30	10
105129448	61	59	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129449	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129450	61	58	144	146	309	307	15	15	876	851	45	49	149	0.945	2.41	10
105129451	61	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129452	61	58	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129453	60	59	152	148	293	300	17	17	812	803	46	49	150	0.945	2.48	10
105129454	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129455	61	59	148	145	314	292	16	18	910	824	46	49	144	0.945	2.48	10
105129458	61	58	154	147	315	313	17	19	832	836	47	49	152	0.945	2.47	10
105129459	61	59	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129460	61	60	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129461	61	58	154	146	323	320	17	19	871	844	48	49	153	0.945	2.45	10
105129462	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129463	61	59	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129464	61	58	154	146	307	288	16	18	850	786	46	48	144	0.945	2.42	10
105129465	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129466	61	59	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129467	61	58	144	143	325	317	18	19	876	859	46	48	150	0.945	2.42	10
105129468	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129470	61	59	145	135	318	301	15	15	905	853	45	48	145	0.945	2.48	10
105129471	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129472	60	58	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129473	61	59	145	136	300	302	17	20	846	843	45	47	143	0.944	2.43	10
105129474	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129475	61	59	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129476	60	58	151	142	305	301	17	20	827	816	47	48	150	0.944	2.45	10
105129478	60	57	148	156	302	296	15	18	895	822	48	49	150	0.946	2.58	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48016	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130222	61	59	139	138	303	323	20	19	856	924	46	47	143	0.946	2.34	10
105130223	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130224	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130225	61	59	138	138	304	309	18	20	911	879	44	47	139	0.946	2.33	10
105130227	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130228	61	60	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130229	60	57	148	139	298	300	17	19	906	860	45	47	140	0.946	2.36	10
105130230	61	59	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130231	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130232	60	58	140	137	304	293	17	19	909	847	45	46	132	0.946	2.29	10
105130233	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130234	61	59	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130235	60	58	142	139	293	306	17	19	854	876	46	47	139	0.945	2.33	10
105130236	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130237	61	59	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130238	61	58	143	142	308	295	17	18	918	854	45	47	138	0.945	2.33	10
105130239	61	59	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130240	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130241	61	58	136	133	305	293	18	19	895	838	44	47	136	0.945	2.38	10
105130242	61	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130243	62	58	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130244	61	59	142	137	310	282	17	19	885	790	46	48	144	0.945	2.36	10
105130245	62	58	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130246	61	59	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130247	61	57	143	138	303	294	17	18	867	852	45	48	142	0.943	2.16	10
105130248	61	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130249	60	57	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130250	61	58	138	134	302	297	18	20	881	867	44	46	133	0.945	2.35	10
105130251	60	57	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130252	60	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130253	61	59	135	127	309	297	18	22	922	837	44	47	140	0.945	2.37	10
105130254	62	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130255	62	59	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10
105130256	61	58	143	132	316	302	15	15	922	854	44	47	143	0.945	2.29	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130257	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130260	61	58	140	137	308	310	17	20	918	883	45	47	142	0.944	2.28	10
105130261	60	56	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130262	60	58	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130263	61	57	144	136	294	286	18	21	828	834	44	47	139	0.944	2.37	10
105130264	60	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130265	62	59	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130266	62	58	171	136	303	298	18	20	854	861	48	47	137	0.944	2.30	10
105130267	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130268	62	59	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130269	62	58	144	146	305	305	21	19	867	858	45	48	142	0.944	2.42	10
105130270	61	57	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130271	61	59	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130272	61	58	141	142	298	290	17	19	869	824	46	49	144	0.945	2.34	10
105130273	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130274	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130275	61	59	173	134	307	277	22	20	909	813	54	48	131	0.945	2.43	10
105130277	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130278	61	59	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130279	62	60	139	131	300	300	18	21	903	857	46	46	138	0.945	2.38	10
105130280	61	60	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130281	61	59	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130282	60	57	143	136	302	296	17	19	894	853	45	47	139	0.945	2.32	10
105130283	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130284	60	58	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130285	61	59	147	138	315	302	16	19	927	873	45	48	134	0.945	2.31	10
105130286	61	59	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130287	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130288	60	58	144	131	292	303	18	20	815	877	44	47	137	0.945	2.33	10
105130289	60	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130290	61	59	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130291	60	58	143	129	299	293	18	22	883	864	44	46	137	0.945	2.27	10
105130292	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130293	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @ Yield (%)	MD Elongation @ Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130294	60	59	144	143	318	298	17	19	902	844	45	47	142	0.945	2.40	10
105130295	60	59	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130296	60	58	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130297	61	56	150	145	291	283	16	18	849	812	46	48	148	0.948	2.41	9
105130298	61	59	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130299	60	57	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130300	60	58	144	139	318	310	18	19	932	875	44	47	144	0.948	2.28	10
105130301	61	57	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130302	61	58	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130303	61	60	144	132	310	309	17	20	889	873	45	48	138	0.945	2.29	10
105130304	61	59	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130305	60	58	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130306	60	57	157	136	320	297	16	19	876	811	46	49	141	0.945	2.45	10
105130307	60	57	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130308	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130309	60	58	149	145	324	318	17	18	906	863	47	49	146	0.945	2.40	10
105130310	60	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130312	61	57	148	143	291	310	17	18	864	881	45	48	138	0.945	2.39	10
105130313	61	57	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130314	61	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130315	60	56	138	139	309	283	18	20	919	821	45	47	136	0.945	2.33	10
105130316	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130317	60	58	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130318	60	59	143	136	309	306	17	19	892	877	46	49	140	0.945	2.39	10
105130319	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130320	60	58	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130321	60	59	143	139	297	290	18	18	883	837	47	48	137	0.945	2.35	10
105130322	60	59	148	142	298	309	19	19	881	886	46	48	144	0.945	2.43	10
105130507	62	60	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130508	60	58	145	140	307	314	17	18	872	873	46	49	145	0.945	2.40	10
105130510	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130511	61	59	143	138	319	298	17	20	888	830	47	49	149	0.946	2.42	10
105130512	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130513	62	59	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130514	62	58	140	138	309	302	16	18	895	863	46	49	145	0.946	2.46	10
105130515	62	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130516	61	59	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130517	61	58	145	140	303	299	17	19	861	849	46	48	144	0.945	2.52	10
105130518	61	58	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130519	61	57	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130520	61	59	147	141	313	312	16	19	903	871	45	48	146	0.945	2.43	10
105130521	61	58	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130522	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130523	61	59	144	136	316	303	17	19	899	850	46	48	147	0.946	2.57	10
105130524	61	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130525	60	59	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130526	60	58	144	139	303	307	17	18	904	856	46	48	146	0.946	2.44	10
105130527	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130528	60	59	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130529	61	58	140	134	300	291	17	19	901	860	46	48	146	0.946	2.52	10
105130530	60	57	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130531	61	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130532	60	58	130	138	282	286	17	16	870	883	45	45	138	0.946	2.53	10
105130533	61	58	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130534	61	59	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130536	60	58	144	144	301	261	16	18	871	776	47	49	149	0.945	2.63	10
105130537	60	59	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130538	61	60	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130539	61	58	151	153	313	307	17	18	901	851	48	50	149	0.945	2.64	10
105130540	60	57	144	146	301	286	17	15	866	800	48	50	148	0.945	2.53	10
105130541	60	59	144	146	301	286	17	15	866	800	48	50	148	0.945	2.53	10
105130564	60	58	141	144	305	302	16	18	913	875	49	50	145	0.947	2.55	10
105130565	60	58	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10
105130566	60	57	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10
105130567	62	60	153	148	321	302	16	18	881	801	48	50	147	0.945	2.48	10
105130568	61	60	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130569	62	60	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10
105130570	62	59	143	141	306	305	17	18	871	836	47	48	143	0.945	2.39	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness* (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance* (lbs)	MD Tear Resistance (lbs)	Puncture Resistance* (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion* Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130571	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130572	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130573	61	57	142	146	308	302	15	15	836	832	48	50	145	0.945	2.53	10
105130574	61	58	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130575	60	58	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130576	60	59	165	132	309	311	15	18	880	875	48	48	141	0.945	2.54	10
105130577	60	58	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130578	60	59	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130579	60	59	140	131	307	296	18	19	882	823	45	46	139	0.946	2.57	10
105130580	60	59	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130581	61	60	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130582	62	59	145	136	314	303	17	19	861	822	47	48	148	0.946	2.52	10
105130583	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130584	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130585	61	59	138	131	302	300	17	19	869	840	45	47	143	0.946	2.46	10
105130586	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130587	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130588	61	59	163	133	310	304	19	19	884	882	47	47	145	0.946	2.47	10
105130589	61	59	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130590	61	58	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130591	61	59	136	137	307	304	17	19	898	866	45	47	144	0.946	2.50	10
105130592	60	57	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130593	60	57	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130595	60	58	144	136	311	300	17	20	881	832	47	49	147	0.945	2.54	10
105130596	60	58	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130597	61	59	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130598	61	58	144	132	330	309	18	20	932	861	46	48	146	0.945	2.53	10
105130599	61	58	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10
105130600	61	58	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10
105130601	61	59	134	188	308	313	19	20	848	871	45	48	145	0.945	2.43	10
105130602	61	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130603	61	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130604	60	58	145	138	315	293	16	18	877	807	46	49	147	0.945	2.47	10
105130605	60	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006

QC

*Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130606	61	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130607	60	58	146	145	320	303	18	18	901	832	47	49	152	0.945	2.44	10
105130608	60	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130610	61	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130612	61	59	152	144	327	315	16	18	913	860	47	49	145	0.945	2.53	10
105130613	60	56	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130614	61	59	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130615	61	58	144	145	303	292	15	18	842	808	49	48	148	0.945	2.55	10
105130616	61	59	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130617	61	59	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130618	61	58	140	139	308	310	18	19	882	866	45	47	138	0.945	2.65	9
105130619	61	58	141	134	318	305	17	19	916	860	46	48	137	0.945	2.49	10
105130620	61	58	141	134	318	305	17	19	916	860	46	48	137	0.945	2.49	10
105130621	60	57	141	134	318	305	17	19	916	860	46	48	137	0.945	2.49	10
105130622	60	57	148	143	307	297	17	18	873	826	47	49	148	0.946	2.58	10
105130623	61	57	148	143	307	297	17	18	873	826	47	49	148	0.946	2.58	10
105130624	60	57	148	143	307	297	17	18	873	826	47	49	148	0.946	2.58	10
105130625	61	58	145	139	299	296	17	19	860	831	47	49	148	0.946	2.49	10
105130626	60	57	145	139	299	296	17	19	860	831	47	49	148	0.946	2.49	10
105130627	61	57	145	139	299	296	17	19	860	831	47	49	148	0.946	2.49	10
105130628	60	58	173	136	307	288	15	19	869	800	48	48	145	0.946	2.59	10
105130629	60	59	173	136	307	288	15	19	869	800	48	48	145	0.946	2.59	10
105130630	60	58	173	136	307	288	15	19	869	800	48	48	145	0.946	2.59	10
105130631	60	58	178	138	317	306	15	15	888	825	50	50	150	0.946	2.29	9
105130632	61	58	178	138	317	306	15	15	888	825	50	50	150	0.946	2.29	9
105130633	60	58	178	138	317	306	15	15	888	825	50	50	150	0.946	2.29	9
105130634	60	56	143	136	311	294	17	18	891	825	44	46	134	0.945	2.39	10
105130635	61	55	143	136	311	294	17	18	891	825	44	46	134	0.945	2.39	10
105130636	61	56	143	136	311	294	17	18	891	825	44	46	134	0.945	2.39	10
105130637	61	57	137	139	308	285	17	19	844	799	46	48	148	0.945	2.48	10
105130638	61	58	137	139	308	285	17	19	844	799	46	48	148	0.945	2.48	10
105130639	60	57	137	139	308	285	17	19	844	799	46	48	148	0.945	2.48	10
105130640	61	57	140	138	302	299	17	18	896	844	48	45	152	0.945	2.45	10
105130641	60	58	140	138	302	299	17	18	896	844	48	45	152	0.945	2.45	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @Yield	MD Elongation @Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130642	61	57	140	138	302	299	17	18	896	844	48	45	152	0.945	2.45	10
105130643	60	57	153	134	311	307	17	20	876	851	44	47	142	0.945	2.57	10
105130644	60	57	153	134	311	307	17	20	876	851	44	47	142	0.945	2.57	10
105130645	61	57	153	134	311	307	17	20	876	851	44	47	142	0.945	2.57	10
105130646	61	58	151	140	316	291	17	18	873	788	48	49	150	0.946	2.51	10
105130647	61	57	151	140	316	291	17	18	873	788	48	49	150	0.946	2.51	10
105130648	61	58	151	140	316	291	17	18	873	788	48	49	150	0.946	2.51	10
105130649	61	59	142	134	318	303	21	19	878	841	46	48	142	0.945	2.56	10
105130650	61	59	142	134	318	303	21	19	878	841	46	48	142	0.945	2.56	10
105130651	61	59	142	134	318	303	21	19	878	841	46	48	142	0.945	2.56	10
105130652	61	57	142	140	308	316	17	19	865	859	47	48	148	0.945	2.58	10
105130653	60	58	142	140	308	316	17	19	865	859	47	48	148	0.945	2.58	10
105130654	61	59	142	140	308	316	17	19	865	859	47	48	148	0.945	2.58	10
105130655	61	57	137	132	305	305	15	20	902	856	46	47	141	0.945	2.51	10
105130656	60	58	137	132	305	305	15	20	902	856	46	47	141	0.945	2.51	10
105130657	61	58	137	132	305	305	15	20	902	856	46	47	141	0.945	2.51	10
105130658	60	59	144	142	318	309	17	19	906	844	45	48	145	0.945	2.46	10
105130659	61	58	144	142	318	309	17	19	906	844	45	48	145	0.945	2.46	10
105130660	61	58	144	142	318	309	17	19	906	844	45	48	145	0.945	2.46	10
105130661	61	59	137	135	304	308	17	19	865	850	45	47	142	0.946	2.58	10
105130662	61	58	137	135	304	308	17	19	865	850	45	47	142	0.946	2.58	10
105130663	60	58	137	135	304	308	17	19	865	850	45	47	142	0.946	2.58	10
105130664	61	59	144	143	299	299	17	17	841	825	45	47	136	0.945	2.50	10
105130665	61	59	144	143	299	299	17	17	841	825	45	47	136	0.945	2.50	10
105130666	60	59	144	143	299	299	17	17	841	825	45	47	136	0.945	2.50	10
105130667	61	58	139	133	317	302	18	19	916	854	45	47	145	0.945	2.49	10
105130668	61	59	139	133	317	302	18	19	916	854	45	47	145	0.945	2.49	10
105130669	61	60	139	133	317	302	18	19	916	854	45	47	145	0.945	2.49	10
105130670	61	59	176	138	311	309	18	20	888	854	47	48	145	0.945	2.48	10
105130671	61	58	176	138	311	309	18	20	888	854	47	48	145	0.945	2.48	10
105130672	61	59	176	138	311	309	18	20	888	854	47	48	145	0.945	2.48	10
105130673	61	58	151	144	319	296	17	18	892	818	46	51	146	0.946	2.53	10
105130674	61	58	151	144	319	296	17	18	892	818	46	51	146	0.946	2.53	10
105130675	61	59	151	144	319	296	17	18	892	818	46	51	146	0.946	2.53	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
46016	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @Yield	MD Elongation @Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130676	61	59	139	136	288	285	17	18	848	796	46	47	139	0.946	2.56	10
105130677	61	59	139	136	288	285	17	18	848	796	46	47	139	0.946	2.56	10
105130678	61	58	139	136	288	285	17	18	848	796	46	47	139	0.946	2.56	10
105130679	61	59	142	136	313	292	18	18	891	817	45	47	140	0.946	2.42	10
105130680	61	58	142	136	313	292	18	18	891	817	45	47	140	0.946	2.42	10
105130681	62	57	142	136	313	292	18	18	891	817	45	47	140	0.946	2.42	10
105130682	61	56	140	136	315	303	15	15	881	828	47	49	144	0.946	2.48	10
105130683	61	58	140	136	315	303	15	15	881	828	47	49	144	0.946	2.48	10
105130684	61	58	140	136	315	303	15	15	881	828	47	49	144	0.946	2.48	10
105130685	61	56	138	133	318	316	15	15	893	854	48	49	144	0.946	2.56	10
105130686	61	58	138	133	318	316	15	15	893	854	48	49	144	0.946	2.56	10
105130687	61	58	138	133	318	316	15	15	893	854	48	49	144	0.946	2.56	10
105130688	61	57	142	141	311	313	18	18	887	869	45	46	142	0.946	2.46	10
105130689	62	59	142	141	311	313	18	18	887	869	45	46	142	0.946	2.46	10
105130690	61	56	142	141	311	313	18	18	887	869	45	46	142	0.946	2.46	10
105130691	60	57	142	141	311	313	18	18	887	869	45	46	142	0.946	2.46	10
105130692	60	57	142	141	311	313	18	18	887	869	45	46	142	0.946	2.46	10
105130693	61	57	139	139	311	312	18	19	883	865	46	48	144	0.946	2.38	10
105130694	60	57	139	139	311	312	18	19	883	865	46	48	144	0.946	2.38	10
105130695	61	58	139	139	311	312	18	19	883	865	46	48	144	0.946	2.38	10
105130696	60	57	136	137	287	307	18	19	834	857	46	48	144	0.946	2.52	10
105130697	60	58	136	137	287	307	18	19	834	857	46	48	144	0.946	2.52	10
105130698	61	57	136	137	287	307	18	19	834	857	46	48	144	0.946	2.52	10
105130699	60	55	141	139	304	295	15	15	868	813	47	50	144	0.946	2.58	10
105130700	60	57	141	139	304	295	15	15	868	813	47	50	144	0.946	2.58	10
105130701	61	57	141	139	304	295	15	15	868	813	47	50	144	0.946	2.58	10
105130702	61	55	142	138	309	280	18	18	897	766	49	48	145	0.946	2.51	10
105130703	61	57	142	138	309	280	18	18	897	766	49	48	145	0.946	2.51	10
105130704	60	57	142	138	309	280	18	18	897	766	49	48	145	0.946	2.51	10
105130705	62	56	144	140	308	306	17	18	840	836	47	48	144	0.945	2.29	10
105130706	60	57	144	140	308	306	17	18	840	836	47	48	144	0.945	2.29	10
105130707	60	57	144	140	308	306	17	18	840	836	47	48	144	0.945	2.29	10
105130708	60	58	144	140	321	301	18	20	890	812	46	48	142	0.945	2.34	10
105130710	61	59	144	140	321	301	18	20	890	812	46	48	142	0.945	2.34	10

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638,Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness (mils)	Minimum Thickness (mils)	TD Strength @ Yield (ppi)	MD Strength @ Yield (ppi)	TD Strength @ Break (ppi)	MD Strength @ Break (ppi)	TD Elongation @Yield (%)	MD Elongation @Yield (%)	TD Elongation @ Break (%)	MD Elongation @ Break (%)	TD Tear Resistance (lbs)	MD Tear Resistance (lbs)	Puncture Resistance (lbs)	Density (g/cc)	Carbon Black Content (%)	Carbon Black Dispersion Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th
105130711	60	58	144	140	321	301	18	20	890	812	46	48	142	0.945	2.34	10
105130712	60	58	150	141	300	300	17	19	824	805	47	49	145	0.945	2.39	10
105130713	60	58	150	141	300	300	17	19	824	805	47	49	145	0.945	2.39	10
105130714	61	58	150	141	300	300	17	19	824	805	47	49	145	0.945	2.39	10
105130715	60	57	150	141	300	300	17	19	824	805	47	49	145	0.945	2.39	10
105130717	61	57	144	137	316	313	16	19	903	851	48	48	146	0.945	2.32	10
105130718	60	56	144	137	316	313	16	19	903	851	48	48	146	0.945	2.32	10
105130719	60	56	144	137	316	313	16	19	903	851	48	48	146	0.945	2.32	10
105130720	61	57	136	133	301	295	16	18	887	853	46	47	140	0.945	2.40	10
105130721	60	57	136	133	301	295	16	18	887	853	46	47	140	0.945	2.40	10
105130722	60	57	136	133	301	295	16	18	887	853	46	47	140	0.945	2.40	10
105130723	61	57	136	133	301	295	16	18	887	853	46	47	140	0.945	2.40	10
105130724	61	57	147	142	326	306	17	19	906	810	46	49	148	0.945	2.41	10
105130725	60	58	147	142	326	306	17	19	906	810	46	49	148	0.945	2.41	10
105130726	60	58	147	142	326	306	17	19	906	810	46	49	148	0.945	2.41	10
105130727	61	58	147	142	326	306	17	19	906	810	46	49	148	0.945	2.41	10
105130728	61	57	146	141	315	284	17	19	877	767	46	48	147	0.944	2.34	10
105130729	61	58	146	141	315	284	17	19	877	767	46	48	147	0.944	2.34	10
105130730	61	56	146	141	315	284	17	19	877	767	46	48	147	0.944	2.34	10
105130731	61	58	146	141	315	284	17	19	877	767	46	48	147	0.944	2.34	10
105130732	60	58	147	137	301	297	17	19	843	817	47	47	146	0.944	2.36	10
105130733	61	59	147	137	301	297	17	19	843	817	47	47	146	0.944	2.36	10
105130734	60	57	147	137	301	297	17	19	843	817	47	47	146	0.944	2.36	10
105130735	61	58	147	137	301	297	17	19	843	817	47	47	146	0.944	2.36	10
105130736	61	58	132	131	303	312	17	20	859	880	45	48	140	0.944	2.34	10
105130737	61	58	132	131	303	312	17	20	859	880	45	48	140	0.944	2.34	10
105130738	61	58	132	131	303	312	17	20	859	880	45	48	140	0.944	2.34	10
105130739	61	59	132	131	303	312	17	20	859	880	45	48	140	0.944	2.34	10
105130740	61	58	146	140	324	316	17	18	911	862	45	48	148	0.944	2.33	10
105130741	60	58	146	140	324	316	17	18	911	862	45	48	148	0.944	2.33	10
105130742	61	58	146	140	324	316	17	18	911	862	45	48	148	0.944	2.33	10
105130743	60	58	146	140	324	316	17	18	911	862	45	48	148	0.944	2.33	10

Lining Technology, Inc

Roll Test Data Report

Sales Order No.	Project Number	Customer Name	Project Location	Product Name	Report Date
48018	520724	Comanco	Blanding, UT	HDE060A010	9/21/2006 *Modified

	ASTM D 5199		ASTM D638, Type IV / D6693								ASTM D 1004		ASTM D 4833	ASTM D 1505	ASTM D 1603*	ASTM D 5596
	Average Thickness	Minimum Thickness	TD Strength @ Yield	MD Strength @ Yield	TD Strength @ Break	MD Strength @ Break	TD Elongation @ Yield	MD Elongation @ Yield	TD Elongation @ Break	MD Elongation @ Break	TD Tear Resistance	MD Tear Resistance	Puncture Resistance	Density	Carbon Black Content	Carbon Black Dispersion
	(mils)	(mils)	(ppi)	(ppi)	(ppi)	(ppi)	(%)	(%)	(%)	(%)	(lbs)	(lbs)	(lbs)	(g/cc)	(%)	Views in Cat1 - Cat2
Roll No.	every roll		every 4th								every 4th		every 4th	every 4th	every 4th	every 4th

Laboratory Manager:

GSE-8.2.4-029 Rev – 03/05

This test report shall not be reproduced, except in full, without written approval of the laboratory.

19103 Gundle Road - Houston, Texas 77073

GEOSYNTEC CONSULTANTS
10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 12 September 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 26	Revision No.: -	Contractor Submittal No.: 26
Specification Section(s): 02770	Date of Submittal Report: 12 September 2006	
Submittal Subject: NCTL Certification Letter from GSE		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Keaton Botelho	9/12/06	Gregory T. Corcoran	9/12/06
Prepared by Keaton Botelho	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	26	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	2	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: NCTL Certification Letter from GSE

Specification Identifier: 02770-3, 1.06, A. 1.

Manufacturer: GSE

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/12/06 By: _____

September 7, 2006

Project Name: IUC White Mesa Mill Cell 4A
Sales Order Number: 48018

GSE certifies, the HDE060A010 manufactured for the above mentioned project will meet and exceed 400 hours for Notched Constant Tensile Load when tested according to ASTM D 5397.

GSE Lining Technology, Inc.

Jane Allen
Laboratory Manager

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 15 September 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 27	Revision No.: -	Contractor Submittal No.: 27
Specification Section(s): 02770	Date of Submittal Report: 15 September 2006	
Submittal Subject: ~~Geomembrane Roll Test Data Reports~~ GCL Roll Test Data		

Notations:

- ☐ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☒ Submit Specified Items

Remarks:

Submit flux test data when complete.

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow 9/15/06

Prepared by Meghan Lithgow — **Date**

Engineer-of-Record Gregory T. Corcoran, P.E — 9/18/06 **Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	27	[X]	Original Submittal	[ ]	Supplement
Submitted:					
No. of Copies:	1	[ ]	Resubmittal	[ ]	Information Only

Submittal Description: GCL Roll Test Data

Specification Identifier: 02772-1, 1.05, 5,a.b.

Manufacturer: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:				
	[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
	[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
	[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☐ NO EXCEPTION TAKEN ☒ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 9/15/06 By: _____

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Date: 9/14/2006
Purchase Order: 3116
ORDER NUMBER: 000217303

Jerry Pryor
Comanco

Plant City, FL 33566
jpryor@comanco.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to Comanco. The shipment was scanned at our Lovell, Wyoming plant on 9/11/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Intl Uranium USA
CUSTOMER P.O.: 3116
ORDER NUMBER: 000217303
PREPARED FOR: Comanco

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Intl Uranium USA
CUSTOMER P.O.: 3116
PREPARED FOR: Comanco

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured for this project is continually passed under a magnet for needle removal and then screened with a metal detection device. Any detected needles, which can be identified without damaging the GCL, are removed from the product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

CETCO
BUILDING TECHNOLOGIES
800.527.9948 www.cetco.com

Scan Date: 9/11/2006
Order Number: 000217303
Prepared For: Comanco

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT ST

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	90 lbs (400 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	22.5 lbs/in (40 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	2.5 lbs/in (4.4 N/cm) Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT ST

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5887	GCL Hydraulic Conductivity	1/200,000 sqft	Standard	Standard
ASTM D 4643	GCL Moisture	Standard	30 % Max	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT ST

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat ST Woven Base Fabric	ASTM D 5261	3.2	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL ORDER PACKING LIST

GCL shipped for certification package number 000217303

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200637LO	00005849	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005850	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005851	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005852	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005853	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005854	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005855	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005856	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005857	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005858	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005859	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005860	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005861	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005862	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005863	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005864	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005865	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005866	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005867	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005868	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005869	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005870	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005871	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005872	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005873	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005874	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005875	200	15	3000	3601

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200637LO	00005876	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005877	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005878	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005879	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005880	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005881	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005882	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005883	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005884	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005885	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005886	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005887	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005888	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005889	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005890	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005891	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005892	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005893	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005894	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005895	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005896	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005897	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005898	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005899	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005900	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005901	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005902	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005903	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005904	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005905	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005906	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005907	200	15	3000	3602

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200637LO	00005908	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005909	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005910	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005911	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005912	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005913	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005914	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005915	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005916	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005917	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005918	200	15	3000	3610
000217303	LO-BENTOMAT ST	200637LO	00005919	200	15	3000	3606
000217303	LO-BENTOMAT ST	200637LO	00005920	200	15	3000	3609
000217303	LO-BENTOMAT ST	200637LO	00005921	200	15	3000	3615
000217303	LO-BENTOMAT ST	200637LO	00005922	200	15	3000	3610
000217303	LO-BENTOMAT ST	200637LO	00005923	200	15	3000	3614
000217303	LO-BENTOMAT ST	200637LO	00005924	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005925	200	15	3000	3607
000217303	LO-BENTOMAT ST	200637LO	00005926	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005927	200	15	3000	3618
000217303	LO-BENTOMAT ST	200637LO	00005928	200	15	3000	3616
000217303	LO-BENTOMAT ST	200637LO	00005929	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005930	200	15	3000	3607
000217303	LO-BENTOMAT ST	200637LO	00005931	200	15	3000	3613
000217303	LO-BENTOMAT ST	200637LO	00005932	200	15	3000	3618
000217303	LO-BENTOMAT ST	200637LO	00005933	200	15	3000	3610
000217303	LO-BENTOMAT ST	200637LO	00005934	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005935	200	15	3000	3609
000217303	LO-BENTOMAT ST	200637LO	00005936	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005937	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005938	200	15	3000	3612
000217303	LO-BENTOMAT ST	200637LO	00005939	200	15	3000	3615

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200637LO	00005940	200	15	3000	3613
000217303	LO-BENTOMAT ST	200637LO	00005941	200	15	3000	3614
000217303	LO-BENTOMAT ST	200637LO	00005942	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005943	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005944	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005945	200	15	3000	3617
000217303	LO-BENTOMAT ST	200637LO	00005946	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005947	200	15	3000	3607
000217303	LO-BENTOMAT ST	200637LO	00005948	200	15	3000	3609
000217303	LO-BENTOMAT ST	200637LO	00005949	200	15	3000	3615
000217303	LO-BENTOMAT ST	200637LO	00005950	200	15	3000	3614
000217303	LO-BENTOMAT ST	200637LO	00005951	200	15	3000	3612
000217303	LO-BENTOMAT ST	200637LO	00005952	200	15	3000	3618
000217303	LO-BENTOMAT ST	200637LO	00005953	200	15	3000	3616
000217303	LO-BENTOMAT ST	200637LO	00005954	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005955	200	15	3000	3607
000217303	LO-BENTOMAT ST	200637LO	00005956	200	15	3000	3608
000217303	LO-BENTOMAT ST	200637LO	00005957	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005958	200	15	3000	3609
000217303	LO-BENTOMAT ST	200637LO	00005959	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005960	200	15	3000	3612
000217303	LO-BENTOMAT ST	200637LO	00005964	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005965	200	15	3000	3615
000217303	LO-BENTOMAT ST	200637LO	00005966	200	15	3000	3609
000217303	LO-BENTOMAT ST	200637LO	00005967	200	15	3000	3610
000217303	LO-BENTOMAT ST	200637LO	00005968	200	15	3000	3608
000217303	LO-BENTOMAT ST	200637LO	00005969	200	15	3000	3612
000217303	LO-BENTOMAT ST	200637LO	00005970	200	15	3000	3607
000217303	LO-BENTOMAT ST	200637LO	00005971	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005972	200	15	3000	3615
000217303	LO-BENTOMAT ST	200637LO	00005973	200	15	3000	3611
000217303	LO-BENTOMAT ST	200637LO	00005974	200	15	3000	3609

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200637LO	00005975	200	15	3000	3610
000217303	LO-BENTOMAT ST	200637LO	00005976	200	15	3000	3612
000217303	LO-BENTOMAT ST	200637LO	00005978	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005979	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005980	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005981	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005982	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005983	200	15	3000	3606
000217303	LO-BENTOMAT ST	200637LO	00005984	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005985	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005986	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005987	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005988	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005989	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005990	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005991	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005992	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005993	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00005994	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00005995	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00005996	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00005997	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00005998	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00005999	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006000	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006001	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006002	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006003	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006004	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006005	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006006	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006007	200	15	3000	3600

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200637LO	00006008	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006009	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006010	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006011	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006012	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00006013	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006014	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006015	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006016	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00006017	200	15	3000	3605
000217303	LO-BENTOMAT ST	200637LO	00006018	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006019	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00006020	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006021	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006022	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006023	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006024	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006025	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00006026	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006027	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006028	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006029	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006030	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006031	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00006032	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006033	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006034	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006035	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006036	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006037	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006038	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006039	200	15	3000	3603

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200637LO	00006040	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006041	200	15	3000	3604
000217303	LO-BENTOMAT ST	200637LO	00006042	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006043	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006044	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006045	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006046	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006047	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006048	200	15	3000	3600
000217303	LO-BENTOMAT ST	200637LO	00006049	200	15	3000	3602
000217303	LO-BENTOMAT ST	200637LO	00006050	200	15	3000	3603
000217303	LO-BENTOMAT ST	200637LO	00006051	200	15	3000	3601
000217303	LO-BENTOMAT ST	200637LO	00006052	200	15	3000	3602
			Totals:	40000	3000	600000	720877

Total Number of Rolls Certified: 200

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000217303

GCL			Geotextiles				Clay
LO-BENTOMAT ST			LO-N/W-WHITE-ST			LO-WOVEN-ST	LO-CG 50-ST
GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200637LO	00005849	00005838	2007049638			5218053	082606D
200637LO	00005850	00005838	2007049638			5218053	082606D
200637LO	00005851	00005838	2007049638			5218053	082606D
200637LO	00005852	00005838	2007049638			5218053	082606D
200637LO	00005853	00005838	2007049638			5218053	082606D
200637LO	00005854	00005854	2007122862			5218053	082606D
200637LO	00005855	00005854	2007122862			5218053	082606D
200637LO	00005856	00005854	2007122862			5218053	082606D
200637LO	00005857	00005854	2007122862			5218053	082606D
200637LO	00005858	00005854	2007122862			5218053	082606D
200637LO	00005859	00005854	2007122862			5218053	082606D
200637LO	00005860	00005854	2007122908			5218053	082606D
200637LO	00005861	00005854	2007122908			5218053	082606D
200637LO	00005862	00005854	2007122908			5217060	082606D
200637LO	00005863	00005854	2007122908			5217060	082606D
200637LO	00005864	00005854	2007122908			5217060	082606D
200637LO	00005865	00005854	2007122908			5217060	082606E
200637LO	00005866	00005854	2007122908			5217060	082606E
200637LO	00005867	00005867	2007101214			5217060	082606E
200637LO	00005868	00005867	2007101214			5217060	082606E
200637LO	00005869	00005867	2007101214			5217060	082606E
200637LO	00005870	00005867	2007101214			5217060	082606E
200637LO	00005871	00005867	2007101214			5217060	082606E
200637LO	00005872	00005867	2007101214			5217060	082606E
200637LO	00005873	00005867	2007101214			5217060	082606E
200637LO	00005874	00005867	2007049637			5217060	082606E
200637LO	00005875	00005867	2007049637			5217060	082606E
200637LO	00005876	00005867	2007049637			5217060	082606E
200637LO	00005877	00005867	2007049637			5217060	082606E

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200637LO	00005878	00005867	2007049637			5217060	082606E
200637LO	00005879	00005867	2007049637			5217060	082606E
200637LO	00005880	00005880	2007049637			5217060	082606E
200637LO	00005881	00005880	2007101522			5217060	082606E
200637LO	00005882	00005880	2007101522			5217060	082606E
200637LO	00005883	00005880	2007101522			5221551	082606E
200637LO	00005884	00005880	2007101522			5221551	082606E
200637LO	00005885	00005880	2007101522			5221551	082606E
200637LO	00005886	00005880	2007101522			5221551	082606E
200637LO	00005887	00005880	2007101522			5221551	082606E
200637LO	00005888	00005880	2007101517			5221551	082606E
200637LO	00005889	00005880	2007101517			5221551	082606E
200637LO	00005890	00005880	2007101517			5221551	082606E
200637LO	00005891	00005880	2007101517			5221551	082606E
200637LO	00005892	00005880	2007101517			5221551	082606E
200637LO	00005893	00005893	2007101517			5221551	082606E
200637LO	00005894	00005893	2007101517			5221551	082606E
200637LO	00005895	00005893	2007049632			5221551	082606E
200637LO	00005896	00005893	2007049632			5221551	082606E
200637LO	00005897	00005893	2007049632			5221551	082606E
200637LO	00005898	00005893	2007049632			5221551	082606E
200637LO	00005899	00005893	2007049632			5221551	082606E
200637LO	00005900	00005893	2007049632			5221551	082606E
200637LO	00005901	00005893	2007049632			5218342	082606E
200637LO	00005902	00005893	2007101543			5218342	082606E
200637LO	00005903	00005893	2007101543			5218342	082606E
200637LO	00005904	00005893	2007101543			5218342	082606E
200637LO	00005905	00005893	2007101543			5218342	082606E
200637LO	00005906	00005906	2007101543			5218342	082606E
200637LO	00005907	00005906	2007101543			5218342	082606E
200637LO	00005908	00005906	2007101543			5218342	082606E
200637LO	00005909	00005906	2007101538			5218342	082606E
200637LO	00005910	00005906	2007101538			5218342	082606F
200637LO	00005911	00005906	2007101538			5218342	082606F
200637LO	00005912	00005906	2007101538			5218342	082606F

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200637LO	00005913	00005906	2007101538			5218342	082606F
200637LO	00005914	00005906	2007101538			5218342	082606F
200637LO	00005915	00005906	2007101538			5218342	082606F
200637LO	00005916	00005906	2007101516			5218342	082606F
200637LO	00005917	00005906	2007101516			5218342	082606F
200637LO	00005918	00005906	2007101516			5218342	082606F
200637LO	00005919	00005919	2007101516			5218342	082606F
200637LO	00005920	00005919	2007101516			5218342	082606F
200637LO	00005921	00005919	2007101516			5218342	082606F
200637LO	00005922	00005919	2007101516			5218342	082606F
200637LO	00005923	00005919	2007101503			5218342	082606F
200637LO	00005924	00005919	2007101503			5214313	082606F
200637LO	00005925	00005919	2007101503			5214313	082606F
200637LO	00005926	00005919	2007101503			5214313	082606F
200637LO	00005927	00005919	2007101503			5214313	082606F
200637LO	00005928	00005919	2007101503			5214313	082606F
200637LO	00005929	00005919	2007101503			5214313	082606F
200637LO	00005930	00005919	2007129202			5214313	082606F
200637LO	00005931	00005919	2007129202			5214313	082606F
200637LO	00005932	00005932	2007129202			5214313	082606F
200637LO	00005933	00005932	2007129202			5214313	082606F
200637LO	00005934	00005932	2007129202			5214313	082606F
200637LO	00005935	00005932	2007129202			5214313	082606F
200637LO	00005936	00005932	2007129202			5214313	082606F
200637LO	00005937	00005932	2007101506			5214313	082606F
200637LO	00005938	00005932	2007101506			5214313	082606F
200637LO	00005939	00005932	2007101506			5214313	082606F
200637LO	00005940	00005932	2007101506			5214313	082606F
200637LO	00005941	00005932	2007101506			5214313	082606F
200637LO	00005942	00005932	2007101506			5214313	082606F
200637LO	00005943	00005932	2007101506			5212160	082606F
200637LO	00005944	00005932	2007129210			5212160	082606F
200637LO	00005945	00005945	2007129210			5212160	082606F
200637LO	00005946	00005945	2007129210			5212160	082606F
200637LO	00005947	00005945	2007129210			5212160	082606G

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200637LO	00005948	00005945	2007129210			5212160	082606G
200637LO	00005949	00005945	2007129210			5212160	082606G
200637LO	00005950	00005945	2007129210			5212160	082606G
200637LO	00005951	00005945	2007101509			5212160	082606G
200637LO	00005952	00005945	2007101509			5212160	082606G
200637LO	00005953	00005945	2007101509			5212160	082606G
200637LO	00005954	00005945	2007101509			5212160	082606G
200637LO	00005955	00005945	2007101509			5212160	082606G
200637LO	00005956	00005945	2007101509			5212160	082606G
200637LO	00005957	00005945	2007101509			5212160	082606G
200637LO	00005958	00005958	2007129199			5212160	082606G
200637LO	00005959	00005958	2007129199			5212160	082606G
200637LO	00005960	00005958	2007129199			5219881	082606G
200637LO	00005964	00005964	2007122861			5219881	082606G
200637LO	00005965	00005964	2007101544			5219881	082606G
200637LO	00005966	00005964	2007101544			5219881	082606G
200637LO	00005967	00005964	2007101544			5219881	082606G
200637LO	00005968	00005964	2007101544			5219881	082606G
200637LO	00005969	00005964	2007101544			5219881	082806A
200637LO	00005970	00005964	2007101544			5219881	082806A
200637LO	00005971	00005964	2007101544			5219881	082806A
200637LO	00005972	00005964	2007129213			5219881	082806A
200637LO	00005973	00005964	2007129213			5219881	082806A
200637LO	00005974	00005964	2007129213			5219881	082806A
200637LO	00005975	00005964	2007129213			5219881	082806A
200637LO	00005976	00005964	2007129213			5219881	082806A
200637LO	00005978	00005978	2007129213			5219881	082806A
200637LO	00005979	00005978	2007101501			5219881	082806A
200637LO	00005980	00005978	2007101501			5219881	082806A
200637LO	00005981	00005978	2007101501			5210907	082806A
200637LO	00005982	00005978	2007101501			5210907	082806A
200637LO	00005983	00005978	2007101501			5210907	082806A
200637LO	00005984	00005978	2007101501			5210907	082806A
200637LO	00005985	00005978	2007101501			5210907	082806A
200637LO	00005986	00005978	2007122938			5210907	082806A

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200637LO	00005987	00005978	2007122938			5210907	082806A
200637LO	00005988	00005978	2007122938			5210907	082806A
200637LO	00005989	00005978	2007122938			5210907	082806A
200637LO	00005990	00005978	2007122938			5210907	082806A
200637LO	00005991	00005991	2007122938			5210907	082806A
200637LO	00005992	00005991	2007129198			5210907	082806A
200637LO	00005993	00005991	2007129198			5210907	082806A
200637LO	00005994	00005991	2007129198			5210907	082806A
200637LO	00005995	00005991	2007129198			5210907	082806A
200637LO	00005996	00005991	2007129198			5210907	082806A
200637LO	00005997	00005991	2007129198			5210907	082806A
200637LO	00005998	00005991	2007129198			5210907	082806A
200637LO	00005999	00005991	2007101215			5210907	082806A
200637LO	00006000	00005991	2007101215			5210907	082806A
200637LO	00006001	00005991	2007101215			5211091	082806A
200637LO	00006002	00005991	2007101215			5211091	082806A
200637LO	00006003	00005991	2007101215			5211091	082806A
200637LO	00006004	00006004	2007101215			5211091	082806A
200637LO	00006005	00006004	2007101215			5211091	082806A
200637LO	00006006	00006004	2007159876			5211091	082806A
200637LO	00006007	00006004	2007159876			5211091	082806B
200637LO	00006008	00006004	2007159876			5211091	082806B
200637LO	00006009	00006004	2007159876			5211091	082806B
200637LO	00006010	00006004	2007159876			5211091	082806B
200637LO	00006011	00006004	2007159876			5211091	082806B
200637LO	00006012	00006004	2007159876			5211091	082806B
200637LO	00006013	00006004	2007101470			5211091	082806B
200637LO	00006014	00006004	2007101470			5211091	082806B
200637LO	00006015	00006004	2007101470			5211091	082806B
200637LO	00006016	00006004	2007101470			5211091	082806B
200637LO	00006017	00006017	2007101470			5211091	082806B
200637LO	00006018	00006017	2007101470			5211091	082806B
200637LO	00006019	00006017	2007101470			091006WI	082806B
200637LO	00006020	00006017	2007030659			091006WI	082806B
200637LO	00006021	00006021	2007030659			091006WI	082806B

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200637LO	00006022	00006021	2007030659			091006WI	082806B
200637LO	00006023	00006021	2007030659			091006WI	082806B
200637LO	00006024	00006021	2007030659			091006WI	082806B
200637LO	00006025	00006021	2007030659			091006WI	082806B
200637LO	00006026	00006021	2007030659			091006WI	082806B
200637LO	00006027	00006021	2007129223			091006WI	082806B
200637LO	00006028	00006021	2007129223			091006WI	082806B
200637LO	00006029	00006021	2007129223			091006WI	082806B
200637LO	00006030	00006021	2007129223			091006WI	082806B
200637LO	00006031	00006021	2007129223			091006WI	082806B
200637LO	00006032	00006021	2007129223			091006WI	082806B
200637LO	00006033	00006021	2007129223			091006WI	082806B
200637LO	00006034	00006034	2007122934			091006WI	082806B
200637LO	00006035	00006034	2007122934			091006WI	082806B
200637LO	00006036	00006034	2007122934			091006WI	082806B
200637LO	00006037	00006034	2007122934			091006WI	082806B
200637LO	00006038	00006034	2007122934			091006WI	082806B
200637LO	00006039	00006034	2007122934			5250505	082806B
200637LO	00006040	00006034	2007122934			5250505	082806B
200637LO	00006041	00006034	2007101471			5250505	082806B
200637LO	00006042	00006034	2007101471			5250505	082806B
200637LO	00006043	00006034	2007101471			5250505	082806B
200637LO	00006044	00006034	2007101471			5250505	082806B
200637LO	00006045	00006034	2007101471			5250505	082806B
200637LO	00006046	00006034	2007101471			5250505	082806B
200637LO	00006047	00006047	2007101471			5250505	082806B
200637LO	00006048	00006047	2007101527			5250505	082806B
200637LO	00006049	00006047	2007101527			5250505	082806B
200637LO	00006050	00006047	2007101527			5250505	082806B
200637LO	00006051	00006047	2007101527			5250505	082806B
200637LO	00006052	00006047	2007101527			5250505	082806B

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000217303 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	90lbs MARV	15lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT ST	200637LO	00005838	1.00	281.4	53.7
LO-BENTOMAT ST	200637LO	00005854	0.81	281.4	46.1
LO-BENTOMAT ST	200637LO	00005867	0.86	281.4	36.5
LO-BENTOMAT ST	200637LO	00005880	0.91	281.4	25.9
LO-BENTOMAT ST	200637LO	00005893	0.84	281.4	34.6
LO-BENTOMAT ST	200637LO	00005906	0.83	280.7	39.5
LO-BENTOMAT ST	200637LO	00005919	0.92	280.7	45.4
LO-BENTOMAT ST	200637LO	00005932	0.91	280.7	30.2
LO-BENTOMAT ST	200637LO	00005945	0.85	280.7	26.5
LO-BENTOMAT ST	200637LO	00005958	0.95	280.7	24.5
LO-BENTOMAT ST	200637LO	00005964	0.90	230.7	29.3
LO-BENTOMAT ST	200637LO	00005978	0.83	230.7	19.4
LO-BENTOMAT ST	200637LO	00005991	0.91	230.7	29
LO-BENTOMAT ST	200637LO	00006004	0.87	230.7	28.4
LO-BENTOMAT ST	200637LO	00006017	0.80	230.7	22.5
LO-BENTOMAT ST	200637LO	00006021	0.96	211.4	27.3
LO-BENTOMAT ST	200637LO	00006034	0.93	211.4	21.7
LO-BENTOMAT ST	200637LO	00006047	0.83	211.4	27.9

Product	Lot # Tested	Roll # Tested	Moisture
LO-BENTOMAT ST	200637LO	00005838	28.4
LO-BENTOMAT ST	200637LO	00005854	29.6
LO-BENTOMAT ST	200637LO	00005867	25.6
LO-BENTOMAT ST	200637LO	00005880	25.1
LO-BENTOMAT ST	200637LO	00005893	26.3
LO-BENTOMAT ST	200637LO	00005906	27.4
LO-BENTOMAT ST	200637LO	00005919	26.4
LO-BENTOMAT ST	200637LO	00005932	27.3
LO-BENTOMAT ST	200637LO	00005945	28.4
LO-BENTOMAT ST	200637LO	00005958	26.7
LO-BENTOMAT ST	200637LO	00005964	29.0
LO-BENTOMAT ST	200637LO	00005978	26.6

LO-BENTOMAT ST	200637LO	00005991	29.0
LO-BENTOMAT ST	200637LO	00006004	24.0
LO-BENTOMAT ST	200637LO	00006017	26.6
LO-BENTOMAT ST	200637LO	00006021	23.3
LO-BENTOMAT ST	200637LO	00006034	27.9
LO-BENTOMAT ST	200637LO	00006047	29.7

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

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BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000217303 has been tested by CETCO with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss
	Test Method:	ASTM D 5890	ASTM D 5891
	Specification:	24ml/2g Min	18ml Max
LO-CG 50-ST	082606D	27	16.2
LO-CG 50-ST	082606E	28	17
LO-CG 50-ST	082606F	28	16
LO-CG 50-ST	082606G	25	16.4
LO-CG 50-ST	082806A	26	16
LO-CG 50-ST	082806B	31	16.4

Tests approved by
Roger B. Wilkerson
Colloid Environmental Technologies Co. (CETCO)
Quality Assurance Coordinator

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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000217303was manufactured with geotextiles which were tested with the following results.

BASE

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
PT	091006W1	3.4	185.6
SI 82TEX	5210907	3.7	178.3
SI 82TEX	5211091	3.3	163.6
SI 83TEX	5212160	3.3	163.6
SI 82TEX	5214313	3.6	174.2
PPX 82TEX	5217060	3.3	163.6
PPX 82TEX	5218053	3.3	163.6
PPX 82TEX	5218342	3.3	163.6
PPX 82TEX	5219881	3.3	163.6
PPX 82TEX	5221551	3.6	164.0
SI 82TEX	5250505	3.5	169.7

CAP

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
PPX 650	2007101506	6.4	102.7
PPX 650	2007101516	6.6	111.9
PPX 650	2007122862	7.5	100.9
PPX 650	2007122938	7.4	118.3
PPX 650	2007129199	6.8	103.8
PPX 650	2007129202	6.7	87.6
PPX 650	2007049638	6.9	125.9
PPX 650	2007101214	6.9	201.8
PPX 650	2007101470	6.7	108.2
PPX 650	2007101503	6.4	102.7
PPX 650	2007101522	6.6	129.0
PPX 650	2007101544	7.3	119.2
PPX 650	2007122908	7.0	121.1
PPX 650	2007101215	6.9	201.8
PPX 650	2007101471	6.7	108.2
PPX 650	2007101501	7.5	127.1
PPX 650	2007129223	7.5	104.4
PPX 650	2007129210	6.7	94.6
PPX 650	2007129213	6.8	85.8

PPX 650	2007049632	7.8	113.2
PPX 650	2007101538	7.2	123.2
PPX 650	2007101543	7.3	119.2
PPX 650	2007122861	7.5	100.9
PPX 650	2007129198	6.8	103.8
PPX 650	2007030659	7.5	142.4
PPX 650	2007101517	6.6	111.9
PPX 650	2007122934	7.5	112.9
PPX 650	2007159876	6.7	96.1
PPX 650	2007101527	6.9	134.4
PPX 650	2007049637	6.9	125.9
PPX 650	2007101509	6.7	128.1

Certifications from our suppliers are on file at our production facility. An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 2 October 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 27-1	Revision No.: -	Contractor Submittal No.: 27-1
Specification Section(s): 02770	Date of Submittal Report: 15 September 2006	
Submittal Subject: Geomembrane Roll Test Data Reports		

Notations:

- ☐ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☒ Submit Specified Items

Remarks:

Submit hydraulic flux data when complete

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Meghan Lithgow		Gregory T. Corcoran, P.E	10/2/06

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 27-1 [X] Original Submittal [ ] Supplement

Submitted:

No. of Copies: 1 [ ] Resubmittal [ ] Information Only

Submittal Description: GCL Roll Test Data

Specification Identifier: 02772-1, 1.05, 5,a.b.

Manufacturer: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: No. of Copies Returned:

Status:

[ ] Code 1 - Approved

[ ] Code 2 - Approved As Noted

[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Date: 9/28/2006
Purchase Order: 3116
ORDER NUMBER: 000217303

Jerry Pryor
Comanco

Plant City, FL 33566
jpryor@comanco.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to Comanco. The shipment was scanned at our Lovell, Wyoming plant on 9/27/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO
LINING TECHNOLOGIES
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GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Intl Uranium UAS
CUSTOMER P.O.: 3116
ORDER NUMBER: 000217303
PREPARED FOR: Comanco

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

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PRODUCTION CERTIFICATION

PROJECT NAME: Intl Uranium UAS
CUSTOMER P.O.: 3116
PREPARED FOR: Comanco

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured for this project is continually passed under a magnet for needle removal and then screened with a metal detection device. Any detected needles, which can be identified without damaging the GCL, are removed from the product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

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Scan Date: 9/27/2006
Order Number: 000217303
Prepared For: Comanco

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT ST

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	90 lbs (400 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	22.5 lbs/in (40 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	2.5 lbs/in (4.4 N/cm) Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT ST

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
STM D 5887	GCL Hydraulic Conductivity	1/200,000 sqft	Standard	Standard
ASTM D 4643	GCL Moisture	Standard	30 % Max	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT ST

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat ST Woven Base Fabric	ASTM D 5261	3.2	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000217303 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	90lbs MARV	15lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT ST	200639LO	00006369	0.88	298.5	37.5
LO-BENTOMAT ST	200640LO	00006378	0.92	264.0	45.6
LO-BENTOMAT ST	200640LO	00006391	0.84	264.0	39.4
LO-BENTOMAT ST	200640LO	00006404	0.99	264.0	38.3
LO-BENTOMAT ST	200640LO	00006417	0.85	264.0	32.4
O-BENTOMAT ST	200640LO	00006430	0.87	264.0	34.1
LO-BENTOMAT ST	200640LO	00006443	0.94	302.8	35.6
LO-BENTOMAT ST	200640LO	00006456	0.83	302.8	30.6
LO-BENTOMAT ST	200640LO	00006461	1.00	211.1	20.4
LO-BENTOMAT ST	200640LO	00006474	0.92	211.1	27.1
LO-BENTOMAT ST	200640LO	00006487	1.00	211.1	20.3
LO-BENTOMAT ST	200640LO	00006493	0.89	207.5	29.1
LO-BENTOMAT ST	200640LO	00006506	0.88	207.5	26.5
LO-BENTOMAT ST	200640LO	00006519	0.91	207.5	24
LO-BENTOMAT ST	200640LO	00006532	0.90	178.9	34.5
LO-BENTOMAT ST	200640LO	00006545	0.87	178.9	25.8
LO-BENTOMAT ST	200640LO	00006558	0.86	178.9	23.4
LO-BENTOMAT ST	200640LO	00006571	0.86	178.9	26.8

Product	Lot # Tested	Roll # Tested	Moisture
LO-BENTOMAT ST	200639LO	00006369	29.7
LO-BENTOMAT ST	200640LO	00006378	29.1
LO-BENTOMAT ST	200640LO	00006391	29.2
LO-BENTOMAT ST	200640LO	00006404	26.8
LO-BENTOMAT ST	200640LO	00006417	28.4
LO-BENTOMAT ST	200640LO	00006430	25.7
LO-BENTOMAT ST	200640LO	00006443	24.7
LO-BENTOMAT ST	200640LO	00006456	27.3
LO-BENTOMAT ST	200640LO	00006461	25.4
LO-BENTOMAT ST	200640LO	00006474	26.4
LO-BENTOMAT ST	200640LO	00006487	25.5
LO-BENTOMAT ST	200640LO	00006493	27.4

LO-BENTOMAT ST	200640LO	00006506	28.3
LO-BENTOMAT ST	200640LO	00006519	25.9
O-BENTOMAT ST	200640LO	00006532	25.3
LO-BENTOMAT ST	200640LO	00006545	28.6
LO-BENTOMAT ST	200640LO	00006558	26.0
LO-BENTOMAT ST	200640LO	00006571	28.5

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000217303was manufactured with geotextiles which were tested with the following results.

BASE

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
PT	092506W1	3.7	182.2
SI 82TEX	2006034604	3.5	157.0
PPX 82TEX	5227863	3.6	164.1
PPX 82TEX	5228828	3.6	164.0
PPX 82TEX	5229334	3.6	164.0
PPX 82TEX	5229352	3.6	164.0
PPX 82TEX	5230040	3.6	164.0
PPX 82TEX	5230041	3.4	170.7
PPX 82TEX	5231068	3.4	170.7
PPX 82TEX	5233319	3.6	164.0
PPX 82TEX	5233725	3.6	164.0
PPX 82TEX	5236788	3.8	177.3
PPX 82TEX	5237023	3.8	177.3
PPX 82TEX	5239481	3.6	164.0
PPX 82TEX	5239522	3.6	164.0

CAP

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
PPX 650	2006964164	7.4	73.4
PPX 650	2007101486	6.7	114.8
PPX 650	2007200867	7.3	77.6
SI 650	2006936722	7.1	71.7
SI 650	2006936745	7.0	74.9
PPX 650	2006936814	6.6	75.5
PPX 650	2006975918	6.2	100.0
PPX 650	2006977569	6.8	101.8
PPX 650	2007125339	6.5	92.9
PPX 650	2007200849	6.7	79.3
PPX 650	2007193994	7.1	88.4
PX 650	2007200836	7.2	88.5
PPX 650	2007200859	7.4	79.1
PPX 650	2007200868	7.3	77.6
PPX 650	2006932082	7.7	68.8

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BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000217303 has been tested by CETCO with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss
	Test Method:	ASTM D 5890	ASTM D 5891
	Specification:	24ml/2g Min	18ml Max
LO-CG 50-ST	092406B	25	15
LO-CG 50-ST	092506A	29	15.6
LO-CG 50-ST	092506B	31	16
LO-CG 50-ST	092506C	30	16.4
LO-CG 50-ST	092606A	27	16.4
LO-CG 50-ST	092606B	28	16.6

Tests approved by
Roger B. Wilkerson
Colloid Environmental Technologies Co. (CETCO)
Quality Assurance Coordinator

PPX 650	2007193986	7.4	86.9
PPX 650	2007200856	7.4	79.1
PPX 650	2007247817	7.4	118.1
PPX 650	2006936713	6.5	68.9
PPX 650	2007159896	6.9	126.6
PPX 650	2007193995	7.1	88.4
PPX 650	2007200846	6.7	79.3
PPX 650	2007200858	7.4	79.1
PPX 650	2007247855	7.2	91.7
PPX 650	2006928912	6.7	61.0
PPX 650	2007200830	7.7	84.8
PPX 650	2007247849	7.7	95.6
PPX 650	2007247850	7.7	95.6
PPX 650	2006953830	7.2	146.9
PPX 650	2007200863	6.5	66.7
SI 650	2005947170	7.2	59.4
PPX 650	2007200861	6.5	66.7

Certifications from our suppliers are on file at our production facility. An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

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GCL ORDER PACKING LIST

GCL shipped for certification package number 000217303

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200639LO	00006369	200	15	3000	3550
000217303	LO-BENTOMAT ST	200639LO	00006370	200	15	3000	3552
000217303	LO-BENTOMAT ST	200639LO	00006371	200	15	3000	3551
000217303	LO-BENTOMAT ST	200639LO	00006372	200	15	3000	3554
000217303	LO-BENTOMAT ST	200639LO	00006373	200	15	3000	3550
000217303	LO-BENTOMAT ST	200639LO	00006374	200	15	3000	3552
000217303	LO-BENTOMAT ST	200639LO	00006375	200	15	3000	3553
000217303	LO-BENTOMAT ST	200639LO	00006376	200	15	3000	3554
000217303	LO-BENTOMAT ST	200639LO	00006377	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006378	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006379	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006381	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006382	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006383	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006384	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006385	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006386	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006387	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006388	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006389	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006390	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006391	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006392	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006393	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006394	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006395	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006396	200	15	3000	3550

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006397	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006398	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006399	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006400	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006401	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006402	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006403	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006404	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006405	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006406	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006407	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006408	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006409	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006410	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006411	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006412	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006413	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006414	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006415	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006416	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006417	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006418	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006419	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006420	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006421	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006422	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006423	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006424	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006425	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006426	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006427	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006428	200	15	3000	3556

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006429	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006430	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006431	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006432	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006433	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006434	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006435	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006436	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006437	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006438	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006439	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006440	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006441	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006442	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006443	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006444	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006445	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006446	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006447	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006448	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006449	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006450	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006451	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006452	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006453	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006454	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006455	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006456	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006457	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006458	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006461	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006462	200	15	3000	3558

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006463	200	15	3000	3560
000217303	LO-BENTOMAT ST	200640LO	00006464	200	15	3000	3561
000217303	LO-BENTOMAT ST	200640LO	00006465	200	15	3000	3563
000217303	LO-BENTOMAT ST	200640LO	00006466	200	15	3000	3565
000217303	LO-BENTOMAT ST	200640LO	00006467	200	15	3000	3562
000217303	LO-BENTOMAT ST	200640LO	00006468	200	15	3000	3559
000217303	LO-BENTOMAT ST	200640LO	00006469	200	15	3000	3558
000217303	LO-BENTOMAT ST	200640LO	00006470	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006471	200	15	3000	3560
000217303	LO-BENTOMAT ST	200640LO	00006472	200	15	3000	3563
000217303	LO-BENTOMAT ST	200640LO	00006473	200	15	3000	3564
000217303	LO-BENTOMAT ST	200640LO	00006474	200	15	3000	3566
000217303	LO-BENTOMAT ST	200640LO	00006475	200	15	3000	3563
000217303	LO-BENTOMAT ST	200640LO	00006476	200	15	3000	3560
000217303	LO-BENTOMAT ST	200640LO	00006477	200	15	3000	3561
000217303	LO-BENTOMAT ST	200640LO	00006478	200	15	3000	3562
000217303	LO-BENTOMAT ST	200640LO	00006479	200	15	3000	3558
000217303	LO-BENTOMAT ST	200640LO	00006480	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006481	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006482	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006483	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006484	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006485	200	15	3000	3557
00217303	LO-BENTOMAT ST	200640LO	00006486	200	15	3000	3559
000217303	LO-BENTOMAT ST	200640LO	00006487	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006488	200	15	3000	3560
000217303	LO-BENTOMAT ST	200640LO	00006489	200	15	3000	3562
000217303	LO-BENTOMAT ST	200640LO	00006490	200	15	3000	3565
000217303	LO-BENTOMAT ST	200640LO	00006491	200	15	3000	3561
000217303	LO-BENTOMAT ST	200640LO	00006492	200	15	3000	3562
000217303	LO-BENTOMAT ST	200640LO	00006493	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006495	200	15	3000	3554

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006496	200	15	3000	3552
00217303	LO-BENTOMAT ST	200640LO	00006497	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006498	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006499	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006500	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006501	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006502	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006503	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006504	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006505	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006506	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006507	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006508	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006509	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006510	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006511	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006512	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006513	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006514	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006515	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006516	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006517	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006518	200	15	3000	3553
00217303	LO-BENTOMAT ST	200640LO	00006519	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006520	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006521	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006522	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006523	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006524	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006525	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006526	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006527	200	15	3000	3553

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006528	200	15	3000	3556
00217303	LO-BENTOMAT ST	200640LO	00006529	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006530	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006531	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006532	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006533	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006534	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006535	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006536	200	15	3000	3557
000217303	LO-BENTOMAT ST	200640LO	00006537	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006538	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006539	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006540	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006541	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006542	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006543	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006544	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006545	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006546	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006547	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006548	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006549	200	15	3000	3557
000217303	LO-BENTOMAT ST	200640LO	00006550	200	15	3000	3553
00217303	LO-BENTOMAT ST	200640LO	00006551	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006552	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006553	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006554	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006555	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006556	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006557	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006558	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006559	200	15	3000	3550

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006560	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006561	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006562	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006563	200	15	3000	3551
000217303	LO-BENTOMAT ST	200640LO	00006564	200	15	3000	3553
000217303	LO-BENTOMAT ST	200640LO	00006565	200	15	3000	3552
000217303	LO-BENTOMAT ST	200640LO	00006566	200	15	3000	3550
000217303	LO-BENTOMAT ST	200640LO	00006567	200	15	3000	3556
000217303	LO-BENTOMAT ST	200640LO	00006568	200	15	3000	3557
000217303	LO-BENTOMAT ST	200640LO	00006569	200	15	3000	3554
000217303	LO-BENTOMAT ST	200640LO	00006570	200	15	3000	3555
000217303	LO-BENTOMAT ST	200640LO	00006571	200	15	3000	3557
000217303	LO-BENTOMAT ST	200640LO	00006572	200	15	3000	3556
			Totals:	**40000**	**3000**	**600000**	**710725**
						Total Number of Rolls Certified: **200**	

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000217303

GCL			Geotextiles				Clay
LO-BENTOMAT ST			LO-N/W-WHITE-ST			LO-WOVEN-ST	LO-CG 50-ST
GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200639LO	00006369	00006369	2006928912			5230041	092406B
200639LO	00006370	00006369	2006928912			5230041	092406B
200639LO	00006371	00006369	2006975918			5230041	092406B
200639LO	00006372	00006369	2006975918			5230040	092406B
200639LO	00006373	00006369	2006975918			5230040	092406B
200639LO	00006374	00006369	2006975918			5230040	092406B
200639LO	00006375	00006369	2006975918			5230040	092406B
200639LO	00006376	00006369	2006975918			5230040	092406B
200639LO	00006377	00006369	2007200861			5230040	092406B
J0640LO	00006378	00006378	2007200861			5230040	092506A
200640LO	00006379	00006378	2007200861			5230040	092506A
200640LO	00006381	00006378	2007200861			5230040	092506A
200640LO	00006382	00006378	2007200861			5230040	092506A
200640LO	00006383	00006378	2007200861			5230040	092506A
200640LO	00006384	00006378	2007200861			5230040	092506A
200640LO	00006385	00006378	2006964164			5230040	092506A
200640LO	00006386	00006378	2006964164			5230040	092506A
200640LO	00006387	00006378	2006964164			5230040	092506A
200640LO	00006388	00006378	2006964164			5230040	092506A
200640LO	00006389	00006378	2006964164			5230040	092506A
200640LO	00006390	00006378	2006964164			5230040	092506A
200640LO	00006391	00006391	2006964164			5230040	092506A
200640LO	00006392	00006391	2006936814			5229334	092506A
200640LO	00006393	00006391	2006936814			5229334	092506A
200640LO	00006394	00006391	2006936814			5229334	092506A
200640LO	00006395	00006391	2006936814			5229334	092506A
200640LO	00006396	00006391	2006936814			5229334	092506A
200640LO	00006397	00006391	2006936814			5229334	092506A
200640LO	00006398	00006391	2006936814			5229334	092506A

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006399	00006391	2006936713			5229334	092506A
200640LO	00006400	00006391	2006936713			5229334	092506A
200640LO	00006401	00006391	2006936713			5229334	092506A
200640LO	00006402	00006391	2006936713			5229334	092506A
200640LO	00006403	00006391	2006936713			5228828	092506A
200640LO	00006404	00006404	2007200846			5228828	092506A
200640LO	00006405	00006404	2007200846			5228828	092506A
200640LO	00006406	00006404	2007200846			5228828	092506A
200640LO	00006407	00006404	2007200846			5228828	092506A
200640LO	00006408	00006404	2007200846			5228828	092506A
200640LO	00006409	00006404	2007200846			5228828	092506A
200640LO	00006410	00006404	2007200846			5228828	092506A
200640LO	00006411	00006404	2007200858			5228828	092506A
200640LO	00006412	00006404	2007200858			5228828	092506A
200640LO	00006413	00006404	2007200858			5228828	092506A
200640LO	00006414	00006404	2007200858			5227863	092506A
200640LO	00006415	00006404	2007200858			5227863	092506A
200640LO	00006416	00006404	2007200858			5227863	092506A
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200640LO	00006429	00006417	2007200859			5236788	092506B
200640LO	00006430	00006430	2007200859			5236788	092506B
200640LO	00006431	00006430	2007200849			5236788	092506B
200640LO	00006432	00006430	2007200849			5236788	092506B
200640LO	00006433	00006430	2007200849			5236788	092506B

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006434	00006430	2007200849			5236788	092506B
200640LO	00006435	00006430	2007200849			5236788	092506B
200640LO	00006436	00006430	2007200849			5236788	092506B
200640LO	00006437	00006430	2007200849			5236788	092506B
200640LO	00006438	00006430	2007200830			5236788	092506B
200640LO	00006439	00006430	2007200830			5236788	092506B
200640LO	00006440	00006430	2007200830			092506WI	092506B
200640LO	00006441	00006430	2007200830			092506WI	092506B
200640LO	00006442	00006430	2007200830			092506WI	092506B
200640LO	00006443	00006443	2007200830			092506WI	092506B
200640LO	00006444	00006443	2007200830			092506WI	092506B
200640LO	00006445	00006443	2007193986			092506WI	092506B
200640LO	00006446	00006443	2007193986			092506WI	092506B
200640LO	00006447	00006443	2007193986			092506WI	092506B
200640LO	00006448	00006443	2007193986			092506WI	092506B
200640LO	00006449	00006443	2007193986			5239522	092506B
200640LO	00006450	00006443	2007193986			5239522	092506B
200640LO	00006451	00006443	2007193986			5239522	092506B
200640LO	00006452	00006443	2007200836			5239522	092506B
200640LO	00006453	00006443	2007200836			5239522	092506B
200640LO	00006454	00006443	2007200836			5239522	092506B
200640LO	00006455	00006443	2007200863			5239522	092506B
200640LO	00006456	00006456	2007200863			5239522	092506B
200640LO	00006457	00006456	2007200863			5239522	092506B
200640LO	00006458	00006456	2007200863			5239522	092506B
200640LO	00006461	00006461	2007193994			5239522	092506C
200640LO	00006462	00006461	2007193994			5233725	092506C
200640LO	00006463	00006461	2007193994			5233725	092506C
200640LO	00006464	00006461	2007193994			5233725	092506C
200640LO	00006465	00006461	2007193995			5233725	092506C
200640LO	00006466	00006461	2007193995			5233725	092506C
200640LO	00006467	00006461	2007193995			5233725	092506C
200640LO	00006468	00006461	2007193995			5233725	092506C
200640LO	00006469	00006461	2007193995			5233725	092506C
200640LO	00006470	00006461	2007193995			5233725	092506C

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006471	00006461	2007193995			5233725	092506C
200640LO	00006472	00006461	2007200867			5233725	092506C
200640LO	00006473	00006461	2007200867			5233725	092506C
200640LO	00006474	00006474	2007200867			5233725	092506C
200640LO	00006475	00006474	2007200867			5233725	092506C
200640LO	00006476	00006474	2007200867			5233725	092506C
200640LO	00006477	00006474	2007200867			5233725	092506C
200640LO	00006478	00006474	2007200867			5231068	092506C
200640LO	00006479	00006474	2007125339			5231068	092506C
200640LO	00006480	00006474	2007125339			5231068	092506C
200640LO	00006481	00006474	2007125339			5231068	092506C
200640LO	00006482	00006474	2007125339			5231068	092506C
200640LO	00006483	00006474	2007125339			5231068	092506C
200640LO	00006484	00006474	2007125339			5231068	092506C
200640LO	00006485	00006474	2007125339			5231068	092506C
200640LO	00006486	00006474	2007101486			5231068	092506C
200640LO	00006487	00006487	2007101486			5231068	092506C
200640LO	00006488	00006487	2007101486			5231068	092506C
200640LO	00006489	00006487	2007101486			5231068	092506C
200640LO	00006490	00006487	2007101486			5231068	092506C
200640LO	00006491	00006487	2007101486			5231068	092506C
200640LO	00006492	00006487	2007101486			5231068	092506C
200640LO	00006493	00006493	2007247850			5231068	092606A
200640LO	00006495	00006493	2007247850			5231068	092606A
200640LO	00006496	00006493	2007247850			5231068	092606A
200640LO	00006497	00006493	2007247850			5231068	092606A
200640LO	00006498	00006493	2007247850			5231068	092606A
200640LO	00006499	00006493	2007247850			5231068	092606A
200640LO	00006500	00006493	2007247850			5231068	092606A
200640LO	00006501	00006493	2007247817			5231068	092606A
200640LO	00006502	00006493	2007247817			5231068	092606A
200640LO	00006503	00006493	2007247817			5229352	092606A
200640LO	00006504	00006493	2007247817			5229352	092606A
200640LO	00006505	00006493	2007247817			5229352	092606A
200640LO	00006506	00006506	2007247817			5229352	092606A

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006507	00006506	2007247817			5229352	092606A
?00640LO	00006508	00006506	2007247855			5229352	092606A
.00640LO	00006509	00006506	2007247855			5229352	092606A
200640LO	00006510	00006506	2007247855			5229352	092606A
200640LO	00006511	00006506	2007247855			5229352	092606A
200640LO	00006512	00006506	2007247855			5229352	092606A
200640LO	00006513	00006506	2007247855			5229352	092606A
200640LO	00006514	00006506	2007247855			5229352	092606A
200640LO	00006515	00006506	2006936745			5229352	092606A
200640LO	00006516	00006506	2006936745			5229352	092606A
200640LO	00006517	00006506	2006936745			5229352	092606A
200640LO	00006518	00006506	2006936745			5229352	092606A
200640LO	00006519	00006519	2006936745			2006034604	092606A
200640LO	00006520	00006519	2006936745			2006034604	092606A
200640LO	00006521	00006519	2006936745			2006034604	092606A
200640LO	00006522	00006519	2006936177			2006034604	092606A
200640LO	00006523	00006519	2006936177			2006034604	092606A
200640LO	00006524	00006519	2006936177			2006034604	092606A
200640LO	00006525	00006519	2006936177			2006034604	092606A
200640LO	00006526	00006519	2006936177			2006034604	092606A
200640LO	00006527	00006519	2006936177			2006034604	092606A
200640LO	00006528	00006519	2006936177			2006034604	092606A
200640LO	00006529	00006519	2006977569			2006034604	092606A
?00640LO	00006530	00006519	2006977569			2006034604	092606A
.00640LO	00006531	00006519	2006977569			2006034604	092606A
200640LO	00006532	00006532	2006977569			5237023	092606A
200640LO	00006533	00006532	2006977569			5237023	092606A
200640LO	00006534	00006532	2006977569			5237023	092606A
200640LO	00006535	00006532	2007247849			5237023	092606A
200640LO	00006536	00006532	2007247849			5237023	092606A
200640LO	00006537	00006532	2007247849			5237023	092606B
200640LO	00006538	00006532	2007247849			5237023	092606B
200640LO	00006539	00006532	2007247849			5237023	092606B
200640LO	00006540	00006532	2007247849			5237023	092606B
200640LO	00006541	00006532	2007247849			5237023	092606B

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006542	00006532	2005947170			5237023	092606B
`00640LO	00006543	00006532	2005947170			5237023	092606B
_00640LO	00006544	00006532	2005947170			5237023	092606B
200640LO	00006545	00006545	2005947170			5237023	092606B
200640LO	00006546	00006545	2005947170			5237023	092606B
200640LO	00006547	00006545	2005947170			5239481	092606B
200640LO	00006548	00006545	2005947170			5239481	092606B
200640LO	00006549	00006545	2006953830			5239481	092606B
200640LO	00006550	00006545	2006953830			5239481	092606B
200640LO	00006551	00006545	2006953830			5239481	092606B
200640LO	00006552	00006545	2006953830			5239481	092606B
200640LO	00006553	00006545	2006953830			5239481	092606B
200640LO	00006554	00006545	2006953830			5239481	092606B
200640LO	00006555	00006545	2006953830			5239481	092606B
200640LO	00006556	00006545	2006953830			5239481	092606B
200640LO	00006557	00006545	2007200868			5239481	092606B
200640LO	00006558	00006558	2007200868			5239481	092606B
200640LO	00006559	00006558	2007200868			5233319	092606B
200640LO	00006560	00006558	2007200868			5233319	092606B
200640LO	00006561	00006558	2007200868			5233319	092606B
200640LO	00006562	00006558	2007200868			5233319	092606B
200640LO	00006563	00006558	2007200868			5233319	092606B
200640LO	00006564	00006558	2007159896			5233319	092606B
`00640LO	00006565	00006558	2007159896			5233319	092606B
_00640LO	00006566	00006558	2007159896			5233319	092606B
200640LO	00006567	00006558	2007159896			5233319	092606B
200640LO	00006568	00006558	2007159896			5233319	092606B
200640LO	00006569	00006558	2007159896			5233319	092606B
200640LO	00006570	00006558	2006936722			5233319	092606B
200640LO	00006571	00006571	2006936722			5233319	092606B
200640LO	00006572	00006571	2006936722			5233319	092606B

GEOSYNTEC CONSULTANTS

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SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 18 December 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 27-2	Revision No.: -	Contractor Submittal No.: 27-2
Specification Section(s): 02772	Date of Submittal Report: 18 December 2006	
Submittal Subject: GCL Flux & Permeability Test Results		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow 18 DEC 2006		12/18/06	
Prepared by	**Date**	**Engineer-of-Record**	**Date**
Meghan Lithgow		Gregory T. Corcoran, P.E	

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 27-2 [X] Original Submittal [ ] Supplement

Submitted:

No. of Copies: 1 [ ] Resubmittal [ ] Information Only

Submittal Description: GCL Flux & Permeability Test Results

Specification Identifier: 02772-1, 1.05, 5,a.b.

Manufacturer: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved

[ ] Code 2 - Approved As Noted

[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	09-23-06
Project Location	: International Uranium Corp		Job No.	:	06LG927.01
Sample Number	: Roll : 5854		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200637LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.19	Final Height of Clay (in)	:	0.26
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	58.90	Final Wet Weight(Clay) (g)	:	86.40
Wet Density (pcf)	:	93.89	Wet Density (pcf)	:	100.65
Moisture Content %	:	26.90	Moisture Content %	:	85.80
Dry Density (pcf)	:	73.99	Dry Density (pcf)	:	54.17

Test Parameters

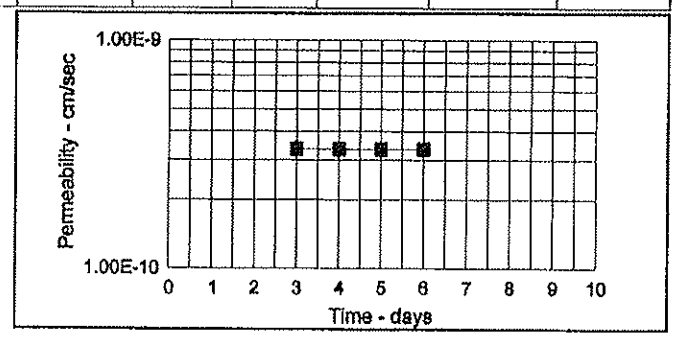
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	4
Head Water (psi)	:	77.00	Gradient	:	212.31
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.26 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (sec)	(m^3/m^2)/sec	cm/sec
1	09/18/2006	48 hours of hydration per ASTM				
2	09/19/2006					
3	09/20/2006	0.6	1435	86100	7.16E-010	3.37E-010
4	09/21/2006	0.6	1441	86460	7.13E-010	3.36E-010
5	09/22/2006	0.6	1443	86580	7.12E-010	3.36E-010
6	09/23/2006	0.6	1442	86520	7.13E-010	3.36E-010



JLT Laboratories, Inc. 938 S Central Ave, Canonsburg, Pa. 15317 Tel 724-746-4441 , Fax 724-745-4251

INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	09-23-06
Project Location	: International Uranium Corp		Job No.	:	06LG927.01
Sample Number	: Roll : 5920		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200637LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.18	Final Height of Clay (in)	:	0.23
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	40.70	Final Wet Weight(Clay) (g)	:	67.40
Wet Density (pcf)	:	68.49	Wet Density (pcf)	:	88.76
Moisture Content %	:	30.80	Moisture Content %	:	116.40
Dry Density (pcf)	:	52.36	Dry Density (pcf)	:	41.02

Test Parameters

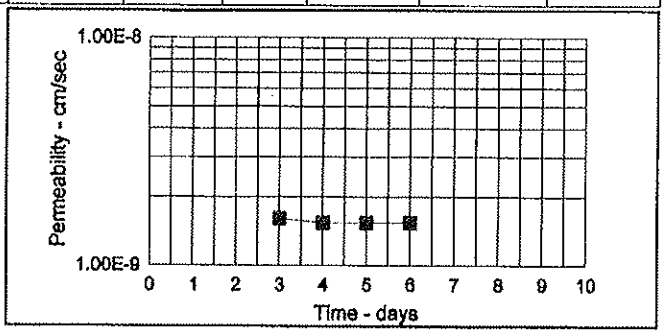
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	4
Head Water (psi)	:	77.00	Gradient	:	240.00
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.23 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (sec)	(m^3/m^2)/sec	cm/sec
1	09/18/2006	48 hours of hydration per ASTM				
2	09/19/2006					
3	09/20/2006	2.7	1435	86100	3.87E-009	1.61E-009
4	09/21/2006	2.6	1441	86460	3.71E-009	1.55E-009
5	09/22/2006	2.6	1443	86580	3.70E-009	1.54E-009
6	09/23/2006	2.6	1442	86520	3.71E-009	1.54E-009



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INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	09-23-06
Project Location	: International Uranium Corp		Job No.	:	06LG927.01
Sample Number	: Roll : 5986		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200637LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.20	Final Height of Clay (in)	:	0.23
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	48.30	Final Wet Weight(Clay) (g)	:	80.20
Wet Density (pcf)	:	73.15	Wet Density (pcf)	:	105.62
Moisture Content %	:	27.70	Moisture Content %	:	112.00
Dry Density (pcf)	:	57.28	Dry Density (pcf)	:	49.82

Test Parameters

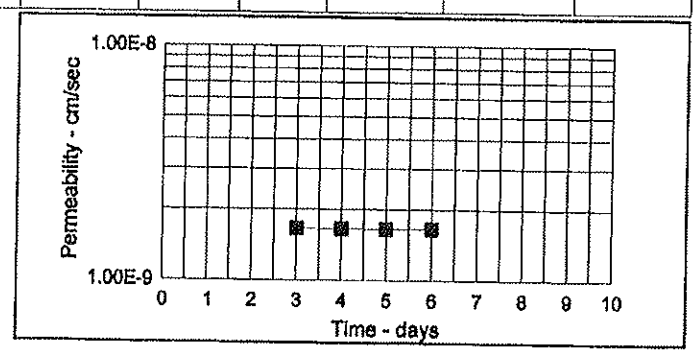
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	4
Head Water (psi)	:	77.00	Gradient	:	240.00
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.23 in

Days	Date	Flow	Time	Elapsed	Flux	k
		∞	min	Time (sec)	(m^3/m^2)/sec	cm/sec
1	09/18/2006	48 hours of hydration per ASTM				
2	09/19/2006					
3	09/20/2006	2.8	1436	86100	4.01E-009	1.67E-009
4	09/21/2006	2.8	1441	86460	3.99E-009	1.66E-009
5	09/22/2006	2.8	1443	86580	3.99E-009	1.66E-009
6	09/23/2006	2.8	1442	86520	3.99E-009	1.66E-009



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INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	10-10-06
Project Location	: Int'l Uranium Corp.		Job No.	:	06LG927.02
Sample Number	: Roll : 6389		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200640LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.17	Final Height of Clay (in)	:	0.22
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	43.50	Final Wet Weight(Clay) (g)	:	75.50
Wet Density (pcf)	:	77.50	Wet Density (pcf)	:	103.95
Moisture Content %	:	26.80	Moisture Content %	:	120.40
Dry Density (pcf)	:	61.12	Dry Density (pcf)	:	47.16

Test Parameters

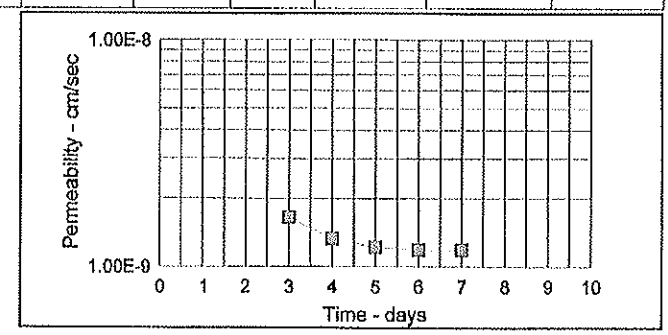
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	4
Head Water (psi)	:	77.00	Gradient	:	250.91
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.22 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (sec)	(m^3/m^2)/sec	cm/sec
1	10/03/2006	48 hours of hydration per ASTM				
2	10/04/2006					
3	10/05/2006	2.80	1437	86220	4.15E-009	1.65E-009
4	10/06/2006	2.35	1440	86400	3.36E-009	1.34E-009
5	10/07/2006	2.15	1443	86580	3.06E-009	1.22E-009
6	10/08/2006	2.10	1444	86640	2.99E-009	1.19E-009
7	10/09/2006	2.10	1443	86580	2.99E-009	1.19E-009



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INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	10-10-06
Project Location	: Int'l Uranium Corp.		Job No.	:	06LG927.02
Sample Number	: Roll : 6455		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200640LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.15	Final Height of Clay (in)	:	0.23
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	44.80	Final Wet Weight(Clay) (g)	:	73.20
Wet Density (pcf)	:	90.46	Wet Density (pcf)	:	96.40
Moisture Content %	:	26.90	Moisture Content %	:	107.30
Dry Density (pcf)	:	71.29	Dry Density (pcf)	:	46.50

Test Parameters

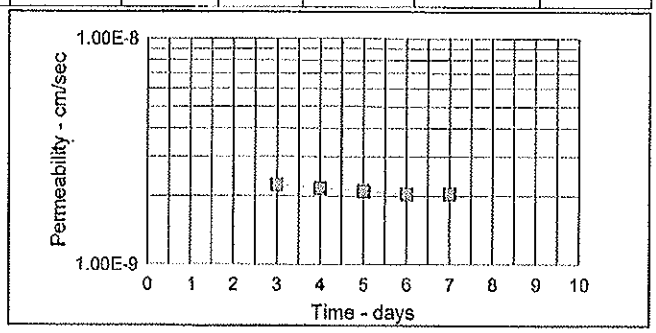
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	**4**
Head Water (psi)	:	77.00	Gradient	:	240.00
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.23 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (sec)	(m^3/m^2)/sec	cm/sec
1	10/03/2006	48 hours of hydration per ASTM				
2	10/04/2006					
3	10/05/2006	3.80	1442	86520	5.42E-009	2.26E-009
4	10/06/2006	3.65	1439	86340	5.21E-009	2.17E-009
5	10/07/2006	3.55	1442	86520	5.06E-009	2.11E-009
6	10/08/2006	3.45	1441	86460	4.92E-009	2.05E-009
7	10/09/2006	3.45	1441	86460	4.92E-009	2.05E-009



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INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	10-10-06
Project Location	: Int'l Uranium Corp.		Job No.	:	06LG927.02
Sample Number	: Roll : 6521		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200640LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.16	Final Height of Clay (in)	:	0.24
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	44.00	Final Wet Weight(Clay) (g)	:	73.00
Wet Density (pcf)	:	83.29	Wet Density (pcf)	:	92.13
Moisture Content %	:	27.20	Moisture Content %	:	111.00
Dry Density (pcf)	:	65.48	Dry Density (pcf)	:	43.66

Test Parameters

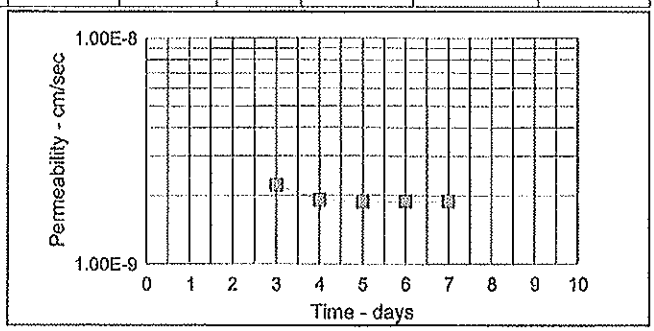
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	4
Head Water (psi)	:	77.00	Gradient	:	230.00
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.24 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (sec)	(m^3/m^2)/sec	cm/sec
1	10/03/2006	48 hours of hydration per ASTM				
2	10/04/2006					
3	10/05/2006	3.60	1442	86520	5.13E-009	2.23E-009
4	10/06/2006	3.10	1439	86340	4.43E-009	1.93E-009
5	10/07/2006	3.05	1442	86520	4.35E-009	1.89E-009
6	10/08/2006	3.05	1441	86460	4.35E-009	1.89E-009
7	10/09/2006	3.05	1441	86460	4.35E-009	1.89E-009



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INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	10-10-06
Project Location	: Int'l Uranium Corp.		Job No.	:	06LG927.02
Sample Number	: Roll : 6859		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200640LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.17	Final Height of Clay (in)	:	0.26
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	57.40	Final Wet Weight(Clay) (g)	:	97.40
Wet Density (pcf)	:	102.27	Wet Density (pcf)	:	113.47
Moisture Content %	:	28.40	Moisture Content %	:	117.90
Dry Density (pcf)	:	79.65	Dry Density (pcf)	:	52.07

Test Parameters

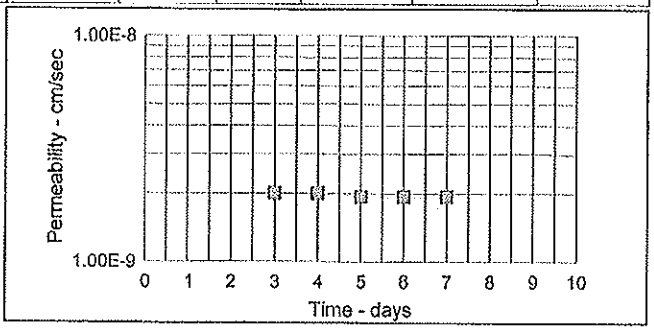
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	**4**
Head Water (psi)	:	77.00	Gradient	:	212.31
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.26 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (sec)	(m^3/m^2)/sec	cm/sec
1	10/03/2006	48 hours of hydration per ASTM				
2	10/04/2006					
3	10/05/2006	3.0	1443	86580	4.27E-009	2.01E-009
4	10/06/2006	3.0	1440	86400	4.28E-009	2.02E-009
5	10/07/2006	2.9	1442	86520	4.13E-009	1.95E-009
6	10/08/2006	2.9	1441	86460	4.14E-009	1.95E-009
7	10/09/2006	2.9	1441	86460	4.14E-009	1.95E-009



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INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	10-10-06
Project Location	: Int'l Uranium Corp.		Job No.	:	06LG927.02
Sample Number	: Roll : 6991		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200640LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.17	Final Height of Clay (in)	:	0.22
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	49.70	Final Wet Weight(Clay) (g)	:	87.50
Wet Density (pcf)	:	88.55	Wet Density (pcf)	:	120.47
Moisture Content %	:	24.60	Moisture Content %	:	123.40
Dry Density (pcf)	:	71.07	Dry Density (pcf)	:	53.92

Test Parameters

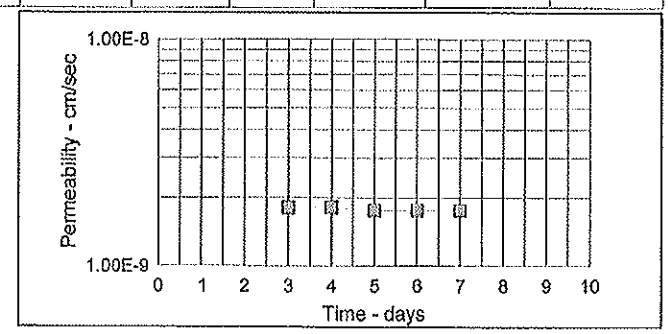
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	4
Head Water (psi)	:	77.00	Gradient	:	250.91
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.22 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (scc)	(m^3/m^2)/sec	cm/sec
1	10/03/2006	48 hours of hydration per ASTM				
2	10/04/2006					
3	10/05/2006	3.2	1444	86640	4.56E-009	1.82E-009
4	10/06/2006	3.2	1441	86460	4.57E-009	1.82E-009
5	10/07/2006	3.1	1441	86460	4.42E-009	1.76E-009
6	10/08/2006	3.1	1440	86400	4.43E-009	1.76E-009
7	10/09/2006	3.1	1442	86520	4.42E-009	1.76E-009



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INDEX FLUX AND PERMEABILITY OF GCL's
TEST RESULTS
ASTM D-5887 / D-5084

Client	: CETCO		Date	:	10-10-06
Project Location	: Int'l Uranium Corp.		Job No.	:	06LG927.02
Sample Number	: Roll : 6925		Tested By	:	MLB/AG
Description	: Bentomat ST	Lot : 200640LO	Checked By	:	JB
Permeant Fluid	: De-Aired Water				

Physical Property Data

		Total Sample			Total Sample
Initial Clay Height (in)	:	0.18	Final Height of Clay (in)	:	0.22
Initial Diameter (in)	:	4.00	Final Diameter of Clay (in)	:	4.00
Initial Wet Weight (g)	:	47.00	Final Wet Weight(Clay) (g)	:	73.60
Wet Density (pcf)	:	79.09	Wet Density (pcf)	:	101.33
Moisture Content %	:	26.30	Moisture Content %	:	115.60
Dry Density (pcf)	:	62.62	Dry Density (pcf)	:	47.00

Test Parameters

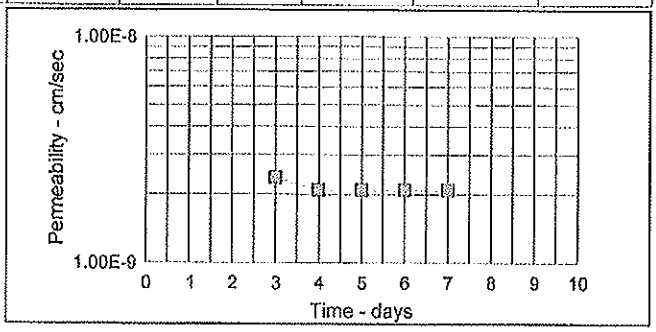
Fluid	:	De-Aired Water	**Average**		
Cell Pressure psi)	:	80.00	**Confining Pressure (psi)**	:	4
Head Water (psi)	:	77.00	Gradient	:	250.91
Tail Water (psi)	:	75.00	Effective Stress at Base	:	5

Flux and Permeability Input Data

Minimum Saturation Time is 48 hours

Area, A = 0.00811 m^2
Thickness, t = 0.22 in

Days	Date	Flow	Time	Elapsed	Flux	k
		cc	min	Time (scc)	(m^3/m^2)/sec	cm/sec
1	10/03/2006	48 hours of hydration per ASTM				
2	10/04/2006					
3	10/05/2006	4.2	1444	86640	5.98E-009	2.38E-009
4	10/06/2006	3.7	1441	86460	5.28E-009	2.10E-009
5	10/07/2006	3.7	1441	86460	5.28E-009	2.10E-009
6	10/08/2006	3.7	1440	86400	5.28E-009	2.11E-009
7	10/09/2006	3.7	1442	86520	5.28E-009	2.10E-009



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GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 18 December 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 27-3	Revision No.: -	Contractor Submittal No.: 27-3
Specification Section(s): 02772	Date of Submittal Report: 18 December 2006	
Submittal Subject: GCL Roll Test Data		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow 18 DEC 2006

Prepared by — **Date**
Meghan Lithgow

12/18/06

Engineer-of-Record — **Date**
Gregory T. Corcoran, P.E

Distribution: ☒ File

Date: 10/2/2006
Purchase Order: 3116
ORDER NUMBER: 000217303

Jerry Pryor
Comanco

Plant City, FL 33566
jpryor@comanco.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to Comanco. The shipment was scanned at our Lovell plant on 10/02/2006.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Intl Uranium UAS
CUSTOMER P.O.: 3116
ORDER NUMBER: 000217303
PREPARED FOR: Comanco

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax: (307)548-6927
E-Mail: rwilke@cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Intl Uranium UAS
CUSTOMER P.O.: 3116
PREPARED FOR: Comanco

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured this project is continually passed under a magnet for needle removal and then screened with a metal detection device. Any detected needles, which can be identified without damaging the GCL, are removed from the product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Ship Date: 10/02/2006
Order Number: 000217303
Prepared For: Comanco

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT ST

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	90 lbs (400 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	22.5 lbs/in (40 N/cm) MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	2.5 lbs/in (4.4 N/cm) Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT ST

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5887	GCL Hydraulic Conductivity	1/200,000 sqft	Standard	Standard
TM D 4643	GCL Moisture	Standard	30 % Max	Standard

Bentonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
All tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT ST

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat ST Woven Base Fabric	ASTM D 5261	3.2	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL ORDER PACKING LIST

GCL shipped for certification package number 000217303

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006780	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006781	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006782	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006783	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006784	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006785	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006786	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006787	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006788	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006789	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006790	200	15	3000	3236
000217303	LO-BENTOMAT ST	200640LO	00006791	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006792	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006793	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006794	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006795	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006796	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006797	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006798	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006799	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006800	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006801	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006802	200	15	3000	3236
000217303	LO-BENTOMAT ST	200640LO	00006803	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006804	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006805	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006806	200	15	3000	3236

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006807	200	15	3000	3230
0217303	LO-BENTOMAT ST	200640LO	00006808	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006809	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006810	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006811	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006812	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006813	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006814	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006815	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006816	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006817	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006818	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006819	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006820	200	15	3000	3236
000217303	LO-BENTOMAT ST	200640LO	00006821	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006822	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006823	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006824	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006825	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006826	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006827	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006828	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006829	200	15	3000	3230
0217303	LO-BENTOMAT ST	200640LO	00006830	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006831	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006832	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006833	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006834	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006835	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006836	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006837	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006838	200	15	3000	3231

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006839	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006840	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006841	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006842	200	15	3000	3236
000217303	LO-BENTOMAT ST	200640LO	00006843	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006844	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006845	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006846	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006847	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006848	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006849	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006850	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006851	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006852	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006853	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006854	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006855	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006856	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006857	200	15	3000	3222
000217303	LO-BENTOMAT ST	200640LO	00006858	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006859	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00006860	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006861	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006862	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006863	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006864	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006865	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006866	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006867	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006868	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006869	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006870	200	15	3000	3223

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006871	200	15	3000	3224
7217303	LO-BENTOMAT ST	200640LO	00006872	200	15	3000	3228
00217303	LO-BENTOMAT ST	200640LO	00006873	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006874	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006875	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006876	200	15	3000	3222
000217303	LO-BENTOMAT ST	200640LO	00006877	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006878	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006879	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006880	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006881	200	15	3000	3222
000217303	LO-BENTOMAT ST	200640LO	00006882	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00006883	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006884	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006885	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006886	200	15	3000	3223
000217303	LO-BENTOMAT ST	200640LO	00006887	200	15	3000	3222
000217303	LO-BENTOMAT ST	200640LO	00006888	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00006889	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006890	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006891	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006892	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006893	200	15	3000	3231
7217303	LO-BENTOMAT ST	200640LO	00006894	200	15	3000	3232
00217303	LO-BENTOMAT ST	200640LO	00006895	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006896	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006897	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006898	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00006899	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006900	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006901	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006902	200	15	3000	3232

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006903	200	15	3000	3230
217303	LO-BENTOMAT ST	200640LO	00006904	200	15	3000	3233
00217303	LO-BENTOMAT ST	200640LO	00006905	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006906	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006907	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006908	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006909	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006910	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006911	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006912	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006913	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006914	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006915	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006916	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006917	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006918	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006919	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006920	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006921	200	15	3000	3026
000217303	LO-BENTOMAT ST	200640LO	00006923	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006924	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006925	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006926	200	15	3000	3231
217303	LO-BENTOMAT ST	200640LO	00006927	200	15	3000	3233
00217303	LO-BENTOMAT ST	200640LO	00006928	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006929	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006930	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006931	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006932	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006933	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006934	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006935	200	15	3000	3231

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006936	200	15	3000	3235
0217303	LO-BENTOMAT ST	200640LO	00006937	200	15	3000	3232
00217303	LO-BENTOMAT ST	200640LO	00006938	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006939	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006940	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006941	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006942	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006943	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006944	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006945	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006946	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006947	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006948	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006949	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006950	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006951	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006952	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006953	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006954	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006955	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006956	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006957	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006958	200	15	3000	3233
0217303	LO-BENTOMAT ST	200640LO	00006959	200	15	3000	3235
00217303	LO-BENTOMAT ST	200640LO	00006960	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006961	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006962	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006963	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006964	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006965	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006966	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006967	200	15	3000	3232

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00006968	200	15	3000	3230
0217303	LO-BENTOMAT ST	200640LO	00006969	200	15	3000	3231
00217303	LO-BENTOMAT ST	200640LO	00006970	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006971	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00006972	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006973	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006974	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006975	200	15	3000	3235
000217303	LO-BENTOMAT ST	200640LO	00006976	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00006977	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00006978	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00006979	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00006980	200	15	3000	3027
000217303	LO-BENTOMAT ST	200640LO	00006981	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006982	200	15	3000	3025
000217303	LO-BENTOMAT ST	200640LO	00006983	200	15	3000	3032
000217303	LO-BENTOMAT ST	200640LO	00006984	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00006985	200	15	3000	3026
000217303	LO-BENTOMAT ST	200640LO	00006986	200	15	3000	3222
000217303	LO-BENTOMAT ST	200640LO	00006987	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00006988	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006989	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006990	200	15	3000	3229
0217303	LO-BENTOMAT ST	200640LO	00006991	200	15	3000	3227
00217303	LO-BENTOMAT ST	200640LO	00006992	200	15	3000	3223
000217303	LO-BENTOMAT ST	200640LO	00006993	200	15	3000	3221
000217303	LO-BENTOMAT ST	200640LO	00006994	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00006995	200	15	3000	3223
000217303	LO-BENTOMAT ST	200640LO	00006996	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00006997	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00006998	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00006999	200	15	3000	3230

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00007000	200	15	3000	3234
0217303	LO-BENTOMAT ST	200640LO	00007001	200	15	3000	3232
00217303	LO-BENTOMAT ST	200640LO	00007002	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00007003	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00007004	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00007005	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00007006	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00007007	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00007008	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00007009	200	15	3000	3223
000217303	LO-BENTOMAT ST	200640LO	00007010	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00007011	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00007012	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00007013	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00007014	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00007015	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00007016	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00007017	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00007018	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00007019	200	15	3000	3222
000217303	LO-BENTOMAT ST	200640LO	00007020	200	15	3000	3220
000217303	LO-BENTOMAT ST	200640LO	00007021	200	15	3000	3223
000217303	LO-BENTOMAT ST	200640LO	00007022	200	15	3000	3225
0217303	LO-BENTOMAT ST	200640LO	00007023	200	15	3000	3226
00217303	LO-BENTOMAT ST	200640LO	00007024	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00007025	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00007026	200	15	3000	3231
000217303	LO-BENTOMAT ST	200640LO	00007027	200	15	3000	3234
000217303	LO-BENTOMAT ST	200640LO	00007028	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00007029	200	15	3000	3230
000217303	LO-BENTOMAT ST	200640LO	00007030	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00007031	200	15	3000	3225

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000217303	LO-BENTOMAT ST	200640LO	00007032	200	15	3000	3224
0217303	LO-BENTOMAT ST	200640LO	00007033	200	15	3000	3221
00217303	LO-BENTOMAT ST	200640LO	00007034	200	15	3000	3223
000217303	LO-BENTOMAT ST	200640LO	00007035	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00007036	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00007037	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00007038	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00007039	200	15	3000	3232
000217303	LO-BENTOMAT ST	200640LO	00007040	200	15	3000	3233
000217303	LO-BENTOMAT ST	200640LO	00007041	200	15	3000	3228
000217303	LO-BENTOMAT ST	200640LO	00007042	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00007043	200	15	3000	3229
000217303	LO-BENTOMAT ST	200640LO	00007044	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00007045	200	15	3000	3227
000217303	LO-BENTOMAT ST	200640LO	00007046	200	15	3000	3225
000217303	LO-BENTOMAT ST	200640LO	00007047	200	15	3000	3224
000217303	LO-BENTOMAT ST	200640LO	00007048	200	15	3000	3226
000217303	LO-BENTOMAT ST	200640LO	00007049	200	15	3000	3228
			Totals:	**53800**	**4035**	**807000**	**867820**
				Total Number of Rolls Certified: **269**			

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000217303

GCL			Geotextiles				Clay
LO-BENTOMAT ST			LO-N/W-WHITE-ST			LO-WOVEN-ST	LO-CG 50-ST
GCL Lot #	**GCL Roll #**	**Roll # Tested**	**Cap Lot #**	**Cap Roll #**	**Roll # Tested**	**Base Roll #**	**Clay Lot #**
200640LO	00006780	00006780	2007247802			209972063	092906A
200640LO	00006781	00006780	2007247802			209972063	092906A
200640LO	00006782	00006780	2007247802			209972063	092906A
200640LO	00006783	00006780	2007247802			209972063	092906A
200640LO	00006784	00006780	2007247802			209972063	092906A
200640LO	00006785	00006780	2007247605			209972063	092906A
200640LO	00006786	00006780	2007247605			209972063	092906A
200640LO	00006787	00006780	2007247605			209972063	092906A
200640LO	00006788	00006780	2007247605			209972063	092906A
)640LO	00006789	00006780	2007247605			209972063	092906A
200640LO	00006790	00006780	2007247605			209972063	092906A
200640LO	00006791	00006780	2007247605			209972063	092906A
200640LO	00006792	00006780	2007247604			209972063	092906B
200640LO	00006793	00006793	2007247604			209972063	092906B
200640LO	00006794	00006793	2007247604			209972063	092906B
200640LO	00006795	00006793	2007247604			209972063	092906B
200640LO	00006796	00006793	2007247604			209972063	092906B
200640LO	00006797	00006793	2007247604			209972063	092906B
200640LO	00006798	00006793	2007247604			209972063	092906B
200640LO	00006799	00006793	2007247812			209972063	092906B
200640LO	00006800	00006793	2007247812			209949954	092906B
200640LO	00006801	00006793	2007247812			209949954	092906B
200640LO	00006802	00006793	2007247812			209949954	092906B
200640LO	00006803	00006793	2007247812			209949954	092906B
200640LO	00006804	00006793	2007247812			209949954	092906B
200640LO	00006805	00006793	2007247812			209949954	092906B
200640LO	00006806	00006806	2007247857			209949954	092906B
200640LO	00006807	00006806	2007247857			209949954	092906B
200640LO	00006808	00006806	2007247857			209949954	092906B

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006809	00006806	2007247857			209949954	092906B
200640LO	00006810	00006806	2007247857			209949954	092906B
)640LO	00006811	00006806	2007247857			209949954	092906B
200640LO	00006812	00006806	2007247857			209949954	092906B
200640LO	00006813	00006806	2007247831			209949954	092906B
200640LO	00006814	00006806	2007247831			209949954	092906B
200640LO	00006815	00006806	2007247831			209949954	092906B
200640LO	00006816	00006806	2007247831			209949954	092906B
200640LO	00006817	00006806	2007247831			209949954	092906B
200640LO	00006818	00006806	2007247831			209949954	092906B
200640LO	00006819	00006819	2007247831			209946356	092906B
200640LO	00006820	00006819	2007159887			209946356	092906B
200640LO	00006821	00006819	2007159887			209946356	092906B
200640LO	00006822	00006819	2007159887			209946356	092906C
200640LO	00006823	00006819	2007159887			209946356	092906C
200640LO	00006824	00006819	2007159887			209946356	092906C
200640LO	00006825	00006819	2007159887			209946356	092906C
200640LO	00006826	00006819	2007159887			209946356	092906C
200640LO	00006827	00006819	2007247816			209946356	092906C
200640LO	00006828	00006819	2007247816			209946356	092906C
200640LO	00006829	00006819	2007247816			209946356	092906C
200640LO	00006830	00006819	2007247816			209946356	092906C
200640LO	00006831	00006819	2007247816			209946356	092906C
200640LO	00006832	00006832	2007247816			209946356	092906C
)640LO	00006833	00006832	2007247816			209946356	092906C
200640LO	00006834	00006832	2007247861			209946326	092906C
200640LO	00006835	00006832	2007247861			209946326	092906C
200640LO	00006836	00006832	2007247861			209946326	092906C
200640LO	00006837	00006832	2007247861			209946326	092906C
200640LO	00006838	00006832	2007247861			209946326	092906C
200640LO	00006839	00006832	2007247861			209946326	092906C
200640LO	00006840	00006832	2007247861			209946326	092906C
200640LO	00006841	00006832	2007247600			209946326	092906C
200640LO	00006842	00006832	2007247600			209946326	092906C
200640LO	00006843	00006832	2007247600			209946326	092906C

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006844	00006832	2007247600			209946326	092906C
200640LO	00006845	00006845	2007247600			209946326	092906C
)640LO	00006846	00006845	2007247600			209946326	092906C
200640LO	00006847	00006845	2007247600			209946326	092906C
200640LO	00006848	00006845	2007159895			209946326	092906C
200640LO	00006849	00006845	2007159895			209952447	092906D
200640LO	00006850	00006845	2007159895			209952447	092906D
200640LO	00006851	00006845	2007159895			209952447	092906D
200640LO	00006852	00006845	2007159895			209952447	092906D
200640LO	00006853	00006845	2007159895			209952447	092906D
200640LO	00006854	00006845	2007159895			209952447	092906D
200640LO	00006855	00006845	2007193993			209952447	092906D
200640LO	00006856	00006845	2007193993			209952447	092906D
200640LO	00006857	00006845	2007193993			209952447	092906D
200640LO	00006858	00006858	2007193993			209952447	092906D
200640LO	00006859	00006858	2007193993			209952447	092906D
200640LO	00006860	00006858	2007193993			209952447	092906D
200640LO	00006861	00006858	2007193993			209952447	092906D
200640LO	00006862	00006858	2007193983			209952447	092906D
200640LO	00006863	00006858	2007193983			209952447	092906D
200640LO	00006864	00006858	2007193983			209952447	092906D
200640LO	00006865	00006858	2007193983			209952447	092906D
200640LO	00006866	00006858	2007193983			209952447	092906D
200640LO	00006867	00006858	2007193983			209952447	092906D
)640LO	00006868	00006858	2007193983			209952447	092906D
200640LO	00006869	00006858	2006978882			209952447	092906D
200640LO	00006870	00006858	2006978882			209952447	092906D
200640LO	00006871	00006871	2006978882			209945600	092906D
200640LO	00006872	00006871	2006978882			209945600	092906D
200640LO	00006873	00006871	2006978882			209945600	092906D
200640LO	00006874	00006871	2006978882			209945600	092906D
200640LO	00006875	00006871	2006978882			209945600	092906D
200640LO	00006876	00006871	2007193957			209945600	092906D
200640LO	00006877	00006871	2007193957			209945600	092906D
200640LO	00006878	00006871	2007193957			209945600	092906D

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006879	00006871	2007193957			209945600	092906E
200640LO	00006880	00006871	2007193957			209945600	092906E
)640LO	00006881	00006871	2007193957			209945600	092906E
200640LO	00006882	00006871	2007193957			209945600	092906E
200640LO	00006883	00006871	2007193992			209945600	092906E
200640LO	00006884	00006884	2007193992			209945600	092906E
200640LO	00006885	00006884	2007193992			209945600	092906E
200640LO	00006886	00006884	2007193992			209945600	092906E
200640LO	00006887	00006884	2007193992			209945600	092906E
200640LO	00006888	00006884	2007193992			209945600	092906E
200640LO	00006889	00006884	2007193992			209945600	092906E
200640LO	00006890	00006884	2007193974			209946320	092906E
200640LO	00006891	00006884	2007193974			209945600	092906E
200640LO	00006892	00006884	2007193974			209946320	092906E
200640LO	00006893	00006884	2007193974			209946320	092906E
200640LO	00006894	00006884	2007193974			209946320	092906E
200640LO	00006895	00006884	2007193974			209946320	092906E
200640LO	00006896	00006884	2007193974			209946320	092906E
200640LO	00006897	00006897	2007200836			209946320	092906E
200640LO	00006898	00006897	2007200836			209946320	092906E
200640LO	00006899	00006897	2007200836			209946320	092906E
200640LO	00006900	00006897	2007200836			209946320	092906E
200640LO	00006901	00006897	2007200836			209946320	092906E
200640LO	00006902	00006897	2007200836			209946320	092906E
)640LO	00006903	00006897	2007200836			209946320	092906E
200640LO	00006904	00006897	2007200833			209946320	092906E
200640LO	00006905	00006897	2007200833			209946320	092906E
200640LO	00006906	00006897	2007200833			209946320	092906E
200640LO	00006907	00006897	2007200833			209946320	092906E
200640LO	00006908	00006897	2007200833			209956180	092906E
200640LO	00006909	00006897	2007200833			209956180	092906F
200640LO	00006910	00006910	2007200833			209956180	092906F
200640LO	00006911	00006910	2007200818			209956180	092906F
200640LO	00006912	00006910	2007200818			209956180	092906F
200640LO	00006913	00006910	2007200818			209956180	092906F

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006914	00006910	2007200818			209956180	092906F
200640LO	00006915	00006910	2007200818			209956180	092906F
)640LO	00006916	00006910	2007200818			209956180	092906F
200640LO	00006917	00006910	2007200818			209956180	092906F
200640LO	00006918	00006910	2007193973			209956180	092906F
200640LO	00006919	00006910	2007193973			209956180	092906F
200640LO	00006920	00006910	2007193973			209956180	092906F
200640LO	00006921	00006910	2007193973			209956180	092906F
200640LO	00006923	00006923	2007193973			209956180	093006A
200640LO	00006924	00006923	2007193973			209956180	093006A
200640LO	00006925	00006923	2007193973			209956180	093006A
200640LO	00006926	00006923	2007163049			093006W1	093006A
200640LO	00006927	00006923	2007163049			093006W1	093006A
200640LO	00006928	00006923	2007163049			093006W1	093006A
200640LO	00006929	00006923	2007163049			093006W1	093006A
200640LO	00006930	00006923	2007163049			093006W1	093006A
200640LO	00006931	00006923	2007163049			093006W1	093006A
200640LO	00006932	00006923	2007163049			093006W1	093006A
200640LO	00006933	00006923	2007193970			093006W1	093006A
200640LO	00006934	00006923	2007193970			093006W1	093006A
200640LO	00006935	00006923	2007193970			093006W1	093006A
200640LO	00006936	00006936	2007193970			093006W1	093006A
200640LO	00006937	00006936	2007193970			093006W1	093006A
200640LO	00006938	00006936	2007193970			093006W1	093006A
)640LO	00006939	00006936	2007194001			209973207	093006A
200640LO	00006940	00006936	2007194001			209973207	093006A
200640LO	00006941	00006936	2007194001			209973207	093006A
200640LO	00006942	00006936	2007194001			209973207	093006A
200640LO	00006943	00006936	2007194001			209973207	093006A
200640LO	00006944	00006936	2007194001			209973207	093006A
200640LO	00006945	00006936	2007194001			209973207	093006A
200640LO	00006946	00006936	2007193979			209973207	093006A
200640LO	00006947	00006936	2007193979			209973207	093006A
200640LO	00006948	00006936	2007193979			209973207	093006A
200640LO	00006949	00006949	2007193979			209973207	093006A

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006985	00006975	2007193989			209951349	093006C
200640LO	00006986	00006975	2007193989			209951349	093006C
)640LO	00006987	00006975	2007162999			209951349	093006C
200640LO	00006988	00006988	2007162999			209951349	093006C
200640LO	00006989	00006988	2007193989			093006W2	093006C
200640LO	00006990	00006988	2007193989			093006W2	093006C
200640LO	00006991	00006988	2007193989			093006W2	093006C
200640LO	00006992	00006988	2007193989			093006W2	093006C
200640LO	00006993	00006988	2007162999			093006W2	093006C
200640LO	00006994	00006988	2007163027			093006W2	093006C
200640LO	00006995	00006988	2007163027			093006W2	093006C
200640LO	00006996	00006988	2007163027			093006W2	093006C
200640LO	00006997	00006988	2007163027			093006W2	093006C
200640LO	00006998	00006988	2007163027			093006W2	093006C
200640LO	00006999	00006988	2007163027			093006W2	093006C
200640LO	00007000	00006988	2007163027			209950643	093006C
200640LO	00007001	00007001	2007200832			209950643	093006C
200640LO	00007002	00007001	2007200832			209950643	093006C
200640LO	00007003	00007001	2007200832			209950643	093006C
200640LO	00007004	00007001	2007200832			209950643	093006C
200640LO	00007005	00007001	2007200832			209950643	093006C
200640LO	00007006	00007001	2007200832			209950643	093006C
200640LO	00007007	00007001	2007200832			209950643	093006C
200640LO	00007008	00007001	2006974859			209950643	093006D
)640LO	00007009	00007001	2006974859			209950643	093006D
200640LO	00007010	00007001	2006974859			209950643	093006D
200640LO	00007011	00007001	2006974859			209950643	093006D
200640LO	00007012	00007001	2006974859			209950643	093006D
200640LO	00007013	00007001	2006974859			209950643	093006D
200640LO	00007014	00007014	2006974859			209950643	093006D
200640LO	00007015	00007014	2007247815			209951336	093006D
200640LO	00007016	00007014	2007247815			209951336	093006D
200640LO	00007017	00007014	2007247815			209951336	093006D
200640LO	00007018	00007014	2007247815			209951336	093006D
200640LO	00007019	00007014	2007247815			209951336	093006D

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00006950	00006949	2007193979			209973207	093006A
200640LO	00006951	00006949	2007193979			209973207	093006A
)640LO	00006952	00006949	2007193979			209973207	093006B
200640LO	00006953	00006949	2007193996			209973207	093006B
200640LO	00006954	00006949	2007193996			209989267	093006B
200640LO	00006955	00006949	2007193996			209989267	093006B
200640LO	00006956	00006949	2007193996			209989267	093006B
200640LO	00006957	00006949	2007193996			209989267	093006B
200640LO	00006958	00006949	2007193996			209989267	093006B
200640LO	00006959	00006949	2007193996			209989267	093006B
200640LO	00006960	00006949	2007193953			209989267	093006B
200640LO	00006961	00006949	2007193953			209989267	093006B
200640LO	00006962	00006962	2007193953			209989267	093006B
200640LO	00006963	00006962	2007193953			209989267	093006B
200640LO	00006964	00006962	2007193953			209989267	093006B
200640LO	00006965	00006962	2007193953			209989267	093006B
200640LO	00006966	00006962	2007193953			209989267	093006B
200640LO	00006967	00006962	2007193998			209989267	093006B
200640LO	00006968	00006962	2007193998			209989267	093006B
200640LO	00006969	00006962	2007193998			209989267	093006B
200640LO	00006970	00006962	2007193998			209951349	093006B
200640LO	00006971	00006962	2007193998			209951349	093006B
200640LO	00006972	00006962	2007193998			209951349	093006B
200640LO	00006973	00006962	2007193998			209951349	093006B
)640LO	00006974	00006962	2007163026			209951349	093006B
200640LO	00006975	00006975	2007163026			209951349	093006B
200640LO	00006976	00006975	2007163026			209951349	093006B
200640LO	00006977	00006975	2007163026			209951349	093006B
200640LO	00006978	00006975	2007163026			209951349	093006B
200640LO	00006979	00006975	2007163026			209951349	093006B
200640LO	00006980	00006975	2007163026			209951349	093006C
200640LO	00006981	00006975	2007193989			209951349	093006C
200640LO	00006982	00006975	2007193989			209951349	093006C
200640LO	00006983	00006975	2007193989			209951349	093006C
200640LO	00006984	00006975	2007193989			209951349	093006C

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200640LO	00007020	00007014	2007247815			209951336	093006D
200640LO	00007021	00007014	2007247815			209951336	093006D
)640LO	00007022	00007014	2007200828			209951336	093006D
200640LO	00007023	00007014	2007200828			209951336	093006D
200640LO	00007024	00007014	2007200828			209951336	093006D
200640LO	00007025	00007014	2007200828			209951336	093006D
200640LO	00007026	00007014	2007200828			209951336	093006D
200640LO	00007027	00007027	2007200828			209951336	093006D
200640LO	00007028	00007027	2007200828			209951336	093006D
200640LO	00007029	00007027	2007193976			209951336	093006D
200640LO	00007030	00007027	2007193976			209951336	093006D
200640LO	00007031	00007027	2007193976			209951336	093006D
200640LO	00007032	00007027	2007193976			209951336	093006D
200640LO	00007033	00007027	2007193976			209951336	093006D
200640LO	00007034	00007027	2007193976			209951336	093006D
200640LO	00007035	00007027	2007193976			093009W3	093006D
200640LO	00007036	00007027	2007168977			093006W3	093006D
200640LO	00007037	00007027	2007168977			093006W3	093006D
200640LO	00007038	00007027	2007168977			093006W3	093006E
200640LO	00007039	00007027	2007168977			093006W3	093006E
200640LO	00007040	00007040	2007168977			093006W3	093006E
200640LO	00007041	00007040	2007193958			093006W3	093006E
200640LO	00007042	00007040	2007193958			093006W3	093006E
200640LO	00007043	00007040	2007193958			093006W3	093006E
)640LO	00007044	00007040	2007193958			093006W3	093006E
200640LO	00007045	00007040	2007193958			093006W3	093006E
200640LO	00007046	00007040	2007193958			093006W3	093006E
200640LO	00007047	00007040	2007193958			093006W3	093006E
200640LO	00007048	00007040	2006974949			093006W3	093006E
200640LO	00007049	00007040	2006974949			093006W3	093006E

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000217303 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 4632	ASTM D 4632
		Standard Specification:	0.75 lb/sq ft MARV	90lbs MARV	15lbs MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT ST	200640LO	00006780	0.87	179.5	25
LO-BENTOMAT ST	200640LO	00006793	1.00	179.5	20.3
LO-BENTOMAT ST	200640LO	00006806	1.01	179.5	30.3
LO-BENTOMAT ST	200640LO	00006819	0.86	179.5	44.5
LO-BENTOMAT ST	200640LO	00006832	0.90	179.5	34.9
LO-BENTOMAT ST	200640LO	00006845	0.97	268.2	43.1
LO-BENTOMAT ST	200640LO	00006858	0.99	268.2	52.5
LO-BENTOMAT ST	200640LO	00006871	1.00	268.2	43
LO-BENTOMAT ST	200640LO	00006884	0.89	268.2	33.2
LO-BENTOMAT ST	200640LO	00006897	0.89	268.2	31.6
LO-BENTOMAT ST	200640LO	00006910	0.89	284.2	26.3
LO-BENTOMAT ST	200640LO	00006923	0.93	284.2	37.1
LO-BENTOMAT ST	200640LO	00006936	0.95	169.3	24.1
LO-BENTOMAT ST	200640LO	00006949	0.93	169.3	27.2
LO-BENTOMAT ST	200640LO	00006962	0.89	169.6	27.7
LO-BENTOMAT ST	200640LO	00006975	0.91	169.6	25.8
LO-BENTOMAT ST	200640LO	00006988	0.94	169.6	36.1
LO-BENTOMAT ST	200640LO	00007001	1.00	169.6	37.3
LO-BENTOMAT ST	200640LO	00007014	0.88	169.6	32.8
LO-BENTOMAT ST	200640LO	00007027	0.94	277.2	26.3
LO-BENTOMAT ST	200640LO	00007040	0.81	277.2	31.8

Product	Lot # Tested	Roll # Tested	Moisture
LO-BENTOMAT ST	200640LO	00006780	28.9
LO-BENTOMAT ST	200640LO	00006793	27.9
LO-BENTOMAT ST	200640LO	00006806	27.1
LO-BENTOMAT ST	200640LO	00006819	28.7
LO-BENTOMAT ST	200640LO	00006832	29.9
LO-BENTOMAT ST	200640LO	00006845	27.5
LO-BENTOMAT ST	200640LO	00006858	27.7
LO-BENTOMAT ST	200640LO	00006871	24.8
LO-BENTOMAT ST	200640LO	00006884	27.5

LO-BENTOMAT ST	200640LO	00006897	28.1
LO-BENTOMAT ST	200640LO	00006910	24.4
LO-BENTOMAT ST	200640LO	00006923	28.0
-BENTOMAT ST	200640LO	00006936	28.6
LO-BENTOMAT ST	200640LO	00006949	26.6
LO-BENTOMAT ST	200640LO	00006962	28.3
LO-BENTOMAT ST	200640LO	00006975	28.1
LO-BENTOMAT ST	200640LO	00006988	27.5
LO-BENTOMAT ST	200640LO	00007001	27.6
LO-BENTOMAT ST	200640LO	00007014	28.1
LO-BENTOMAT ST	200640LO	00007027	27.2
LO-BENTOMAT ST	200640LO	00007040	26.1

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

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GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000217303was manufactured with geotextiles which were tested with the following results.

BASE

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
PT	093006W1	3.4	137.2
PT	093006W2	3.2	142.6
PT	093006W3	3.5	152.3
PPX 9619	209945600	3.4	154.0
PPX 9619	209946320	3.3	137.0
PPX 9619	209946326	3.2	137.0
PPX 9619	209946356	3.4	160.0
PPX 9619	209949954	3.5	154.0
X 9619	209950643	3.5	126.0
PPX 9619	209951336	3.4	136.6
PPX 9619	209951349	3.5	138.3
PPX 9619	209952447	3.2	154.0
PPX 9619	209956180	3.4	154.4
PPX 9619	209972063	3.5	153.0
PPX 9619	209973207	3.5	126.0
PPX 9619	209989267	3.4	136.7

CAP

Material	Roll Number	Mass Area oz/yd2	Grab Strength lbs
PPX 650	2006974859	7.5	71.7
PPX 650	2007193953	7.8	63.6
PPX 650	2007194001	7.6	80.4
PPX 650	2007200818	7.1	65.3
PPX 650	2007200832	7.4	93.0
PPX 650	2007247815	7.4	118.1
PPX 650	2007193992	7.7	90.9
PPX 650	2007247604	7.6	103.5
PPX 650	2006974949	6.3	65.3
PPX 650	2006978828	6.9	107.7
PPX 650	2007159887	7.1	116.2
X 650	2007159895	6.9	126.6
PPX 650	2007163027	7.6	107.3
PPX 650	2007193957	6.8	75.3

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

BENTONITE CLAY CERTIFICATION

The bentonite clay used to produce certification package 000217303 has been tested by Cetco with the following results.

Clay Type	Clay Lot #	Swell	Fluid Loss
	Test Method:	ASTM D 5890	ASTM D 5891
	Specification:	24ml/2g Min	18ml Max
LO-CG 50-ST	092906A	27	15.8
LO-CG 50-ST	092906B	29	15.4
LO-CG 50-ST	092906C	27	16.5
LO-CG 50-ST	092906D	28	16
LO-CG 50-ST	092906E	32	14.6
LO-CG 50-ST	092906F	30	16.3
LO-CG 50-ST	093006A	31	16
LO-CG 50-ST	093006B	28	16.8
LO-CG 50-ST	093006C	28	17
LO-CG 50-ST	093006D	30	16.6
LO-CG 50-ST	093006E	29	17.4

Tests approved by
Roger B. Wilkerson
Colloid Environmental Technologies Co. (CETCO)
Quality Assurance Coordinator

PPX 650	2007193958	6.8	75.3
PPX 650	2007193974	7.2	67.3
PPX 650	2007193996	7.1	88.4
X 650	2007247600	7.2	87.8
PPX 650	2007162999	6.9	116.6
PPX 650	2007163049	7.4	117.0
PPX 650	2007193973	7.2	67.3
PPX 650	2007193983	7.4	81.4
PPX 650	2007193998	7.2	84.5
PPX 650	2007200836	7.2	88.5
PPX 650	2007247802	7.3	99.0
PPX 650	2007247831	7.3	92.5
PPX 650	2007193989	7.7	90.9
PPX 650	2007200833	7.4	93.0
PPX 650	2007247816	7.4	118.1
PPX 650	2007247861	7.6	94.2
PPX 650	2007193979	7.4	69.2
PPX 650	2007200828	7.7	84.8
PPX 650	2007168977	7.0	90.2
PPX 650	2007247812	7.7	110.4
PPX 650	2007247857	7.2	91.7
PPX 650	2007163026	7.6	107.3
PPX 650	2007193970	7.2	67.3
PPX 650	2007193976	7.2	67.3
PPX 650	2007193993	7.1	88.4
X 650	2007247605	7.6	103.5

Certifications from our suppliers are on file at our production facility. An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 07 December 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 27-4	Revision No.: -	Contractor Submittal No.: 27-4
Specification Section(s): 02772	Date of Submittal Report: 07 December 2006	
Submittal Subject: GCL Hydraulic Flux Test Data		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow 12/7/06

Prepared by — **Date**
Meghan Lithgow

12/7/06

Engineer-of-Record — **Date**
Gregory T. Corcoran, P.E

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 27-4 [X] Original Submittal [ ] Supplement

Submitted:

No. of Copies: 1 [ ] Resubmittal [ ] Information Only

Submittal Description: GCL Flux & Permeability Test Results

Specification Identifier: O2772-1, 1.05, 5,a.b.

Manufacturer: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

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[ ] Code 2 - Approved As Noted

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[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

CETCO - 92 Hwy 37, Lovell, WY. 82431 **Computation Sheet: GRI Accredited ASTM D-5887, Index Flux**

Sample: Bentomat ST
Lot Number: 200637LO
Roll Number: 6052
Project Name: Int'l Uranium Corp.

Permeability equation : ((0.879*Thickness)/(2*Pi*r^2*Time))*ln(Change in Head)

Flux equation : ((Inflow+Outflow)/200)/Pi*r^2/Time

Initial Thickness : 0.761 cm. **Hydration :** 48hrs **Permeant :** De-aired DI Water **Date:** 11/28/2006

Test Position : CET-L-302 **Initial Head :** 2psi 140.6 cm. **Analyst :** SW **Date Started:** 11/16/2006

Cell Size : 4 in. **Max. Effective Stress :** 5psi 34.5kPa **Requested by :**

Final Thickness : 0.705 cm.

* indicates value meets Flux Ratio ASTM termination criteria

Conversions : 1 psi

Flux (English) = Flux * 9.2366E+10

Date	Time (min)	Reading In	X	Reading Out	Y	X-Y	Head (cm)	H (cm)	Initial K (cm/sec)	Initial Flux ($m^3/m^2/sec$)		Avg Flux ($m^3/m^2/sec$)	Final K (cm/sec)	Final Flux (Gal/Acre /Day)	Inflow to Outflow Ratio
11/27/2006	0	0.0	24.0	24.0	0.0	24.0	140.63	164.63							
	115	0.5	23.5	23.4	0.6	22.9	140.63	163.53	4.01E-09	9.83E-09			3.71E-9		0.83
	222	1.1	22.9	22.9	1.1	21.8	140.63	162.43	4.34E-09	1.06E-08	*		4.02E-9		1.20
	350	1.7	22.3	22.3	1.7	20.6	140.63	161.23	3.98E-09	9.64E-09	*		3.69E-9		1.00
11/28/2006	1313	6.4	17.6	17.7	6.3	11.3	140.63	151.93	4.24E-09	9.93E-09	*		3.93E-9		1.02
	1429	6.9	17.1	17.2	6.8	10.3	140.63	150.93	3.91E-09	8.86E-09	*		3.63E-9		1.00
	1530	7.4	16.6	16.7	7.3	9.3	140.63	149.93	4.53E-09	1.02E-08	*		4.19E-9		1.00
	1632	7.8	16.2	16.3	7.7	8.5	140.63	149.13	3.61E-09	8.06E-09	*	**9.03E-09**	3.34E-9	834	1.00
							Final Flux		**9.0E-9**	**$m^3/m^2/sec$**					-0.48
							Final Hydraulic Conductivity		**3.7E-9**	**cm/s**					

GEOSYNTEC CONSULTANTS

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San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 17 November 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 28	Revision No.: -	Contractor Submittal No.: 28
Specification Section(s): 02773	Date of Submittal Report: 17 November 2006	
Submittal Subject: Geonet Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow 17 NOV 2006

Prepared by — **Date**
Meghan Lithgow

11/20/06

Engineer-of-Record — **Date**
Gregory T. Corcoran, P.E

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 28 [X] Original Submittal [ ] Supplement

Submitted:

No. of Copies: 1 [ ] Resubmittal [ ] Information Only

Submittal Description: Geonet Roll Test Data

Specification Identifier: O2773-7, Table 02773-1

Manufacturer: SKAPS Industries

COMPLETED BY ENGINEER:

No. of Copies Received: No. of Copies Returned:

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[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SKAPS Industries

Engineered Synthetic Products, Inc.

October 12, 2006
Comanco Environmental Corp.
7911 Professional Place
Tampa, FL 33637

Ref. : International Uranium, UT
Customer P.O. # 3117
Transnet 33000

We certify that the Transnet 33000 drainage composite, meets the project requirements as stated in the specifications. The properties listed in this section are:

Property	Test Method	Unit	Required Value	Qualifier
Geonet				
Mass per Unit Area	ASTM D 5261	lb/ft^2	0.30	Minimum
Thickness	ASTM D 5199	mil	300	Minimum
Carbon Black	ASTM D 4218	%	2.0	Minimum
Tensile Strength	ASTM D 5035	lb/in	75	Minimum
Melt Flow	ASTM D 1238[2]	g/10 min	1.0	Maximum
Density	ASTM D 1505	g/cc	0.94	Minimum
Transmissivity[1]	ASTM D 4716	m^2/sec	8.0×10^{-3}	Minimum

Notes:

1 Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

2 Condition 190/2.16

Sincerely,

Nilay Patel

Nilay Patel
QA Manager

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : TN33000
Project : International Uranium, UT

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100001	UTCX51681	0.9554	0.385	324	2.62	116	9.73×10^{-3}
2100002	UTCX51681	0.9554					
2100003	UTCX51681	0.9554					
2100004	UTCX51681	0.9554					
2100005	UTCX51681	0.9554					
2100006	UTCX51681	0.9554					
2100007	UTCX51681	0.9554					
2100008	UTCX51681	0.9554					
2100009	UTCX51681	0.9554					
2100010	UTCX51681	0.9554					
2100011	UTCX51681	0.9554					
2100012	UTCX51681	0.9554					
2100013	UTCX51681	0.9554					
2100014	UTCX51681	0.9554					
2100015	UTCX51681	0.9554	0.380	321	2.54	111	
2100016	UTCX51681	0.9554					
2100017	UTCX51681	0.9554					
2100018	UTCX51681	0.9554					
2100019	UTCX51681	0.9554					
2100020	UTCX51681	0.9554					
2100021	UTCX51681	0.9554					
2100022	UTCX51681	0.9554					
2100023	UTCX51681	0.9554					
2100024	UTCX51681	0.9554					
2100025	UTCX51681	0.9554					
2100026	UTCX51681	0.9554					
2100027	UTCX51681	0.9554					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : TN33000
Project : International Uranium, UT

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100028	UTCX51681	0.9554					
2100029	UTCX51681	0.9554					
2100030	UTCX51681	0.9554	0.387	326	2.68	114	9.70×10^{-3}
2100031	UTCX51681	0.9554					
2100032	UTCX51681	0.9554					
2100033	UTCX51681	0.9554					
2100034	UTCX51681	0.9554					
2100035	UTCX51681	0.9554					
2100036	UTCX51681	0.9554					
2100037	UTCX51681	0.9554					
2100038	UTCX51681	0.9554					
2100039	UTCX51681	0.9554					
2100040	UTCX51681	0.9554					
2100041	UTCX51681	0.9554					
2100042	UTCX51681	0.9554					
2100043	UTCX51681	0.9554					
2100044	UTCX51681	0.9554					
2100045	UTCX51681	0.9554	0.378	319	2.46	109	
2100046	UTCX51681	0.9554					
2100047	UTCX51681	0.9554					
2100048	UTCX51681	0.9554					
2100049	UTCX51681	0.9554					
2100050	UTCX51681	0.9554					
2100051	UTCX51681	0.9554					
2100052	UTCX51681	0.9554					
2100053	UTCX51681	0.9554					
2100054	UTCX51681	0.9554					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : TN33000
Project : International Uranium, UT

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100055	UTCX51681	0.9554					
2100056	UTCX51681	0.9554					
2100057	UTCX51681	0.9554					
2100058	UTCX51681	0.9554					
2100059	UTCX51681	0.9554					
2100060	UTCX51681	0.9554	0.389	328	2.72	112	9.79×10^{-3}
2100061	UTCX51681	0.9554					
2100062	UTCX51681	0.9554					
2100063	UTCX51681	0.9554					
2100064	UTCX51681	0.9554					
2100065	UTCX51681	0.9554					
2100066	UTCX51681	0.9554					
2100067	UTCX51681	0.9554					
2100068	UTCX51681	0.9554					
2100069	UTCX51681	0.9554					
2100070	UTCX51681	0.9554					
2100071	UTCX51681	0.9554					
2100072	UTCX51681	0.9554					
2100073	UTCX51681	0.9554					
2100074	UTCX51681	0.9554					
2100075	UTCX51681	0.9554	0.376	317	2.50	108	
2100076	UTCX51681	0.9554					
2100077	UTCX51681	0.9554					
2100078	UTCX51681	0.9554					
2100079	UTCX51681	0.9554					
2100080	UTCX51681	0.9554					
2100081	UTCX51681	0.9554					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : TN33000
Project : International Uranium, UT

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100082	UTCX51681	0.9554					
2100083	UTCX51681	0.9554					
2100084	UTCX51681	0.9554					
2100085	UTCX51681	0.9554					
2100086	UTCX51681	0.9554					
2100087	UTCX51681	0.9554					
2100088	UTCX51681	0.9554					
2100089	UTCX51681	0.9554					
2100090	UTCX51681	0.9554	0.383	322	2.66	115	9.62×10^{-3}
2100091	UTCX51681	0.9554					
2100092	UTCX51681	0.9554					
2100093	UTCX51681	0.9554					
2100094	UTCX51681	0.9554					
2100095	UTCX51681	0.9554					
2100096	UTCX51681	0.9554					
2100097	UTCX51681	0.9554					
2100098	UTCX51681	0.9554					
2100099	UTCX51681	0.9554					
2100100	UTCX51681	0.9554					
2100101	UTCX51681	0.9554					
2100102	UTCX51681	0.9554					
2100103	UTCX51681	0.9554					
2100104	UTCX51681	0.9554					
2100105	UTCX51681	0.9554	0.374	316	2.42	110	
2100106	UTCX51681	0.9554					
2100107	UTCX51681	0.9554					
2100108	UTCX51681	0.9554					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : TN33000
Project : International Uranium, UT

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100109	UTCX51681	0.9554					
2100110	UTCX51681	0.9554					
2100111	UTCX51681	0.9554					
2100112	UTCX51681	0.9554					
2100113	UTCX51681	0.9554					
2100114	UTCX51681	0.9554					
2100115	UTCX51681	0.9554					
2100116	UTCX51681	0.9554					
2100117	UTCX51681	0.9554					
2100118	UTCX51681	0.9554					
2100119	UTCX51681	0.9554					
2100120	UTCX51681	0.9554	0.381	325	2.64	113	9.81×10^{-3}
2100121	UTCX51681	0.9554					
2100122	UTCX51681	0.9554					
2100123	UTCX51681	0.9554					
2100124	UTCX51681	0.9554					
2100125	UTCX51681	0.9554					
2100126	UTCX51681	0.9554					
2100127	UTCX51681	0.9554					
2100128	UTCX51681	0.9554					
2100129	UTCX51681	0.9554					
2100130	UTCX51681	0.9554					
2100131	UTCX51681	0.9554					
2100132	UTCX51681	0.9554					
2100133	UTCX51681	0.9554					
2100134	UTCX51681	0.9554					
2100135	UTCX51681	0.9554	0.372	320	2.52	109	

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : TN33000
Project : International Uranium, UT

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100136	UTCX51681	0.9554					
2100137	UTCX51681	0.9554					
2100138	UTCX51681	0.9554					
2100139	UTCX51681	0.9554					
2100140	UTCX51681	0.9554					
2100141	UTCX51681	0.9554					
2100142	UTCX51681	0.9554					
2100143	UTCX51681	0.9554					
2100144	UTCX51681	0.9554					
2100145	UTCX51681	0.9554					
2100146	UTCX51681	0.9554					
2100147	UTCX51681	0.9554					
2100148	UTCX51681	0.9554					
2100149	UTCX51681	0.9554					
2100150	UTCX51681	0.9554	0.388	323	2.70	116	9.68×10^{-3}
2100151	UTCX51681	0.9554					
2100152	UTCX51681	0.9554					
2100153	UTCX51681	0.9554					
2100154	UTCX51681	0.9554					
2100155	UTCX51681	0.9554					
2100156	UTCX51681	0.9554					
2100157	UTCX51681	0.9554					
2100158	UTCX51681	0.9554					
2100159	UTCX51681	0.9554					
2100160	UTCX51681	0.9554					
2100161	UTCX51681	0.9554					
2100162	UTCX51681	0.9554					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

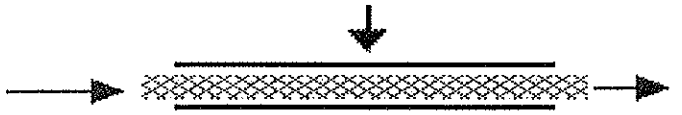
571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

ASTM D 4716

Client:	Comanco Environmental Corp.	**Job #**	2100
Project:	International Uranium, UT		
Product:	TN33000		

Test Configuration:



Test Information:

Boundary Conditions:	60 mil liner Geonet 60 mil liner	**Normal Load:** **Gradient:** **Seating Time:** **Flow Direction:**	7000 psf 0.1 ft 1 hour MD

Test Results:

Roll No.	Pressure (psf)	Gradient, ft	Transmissivity, m^2/sec
			1 hour
2100001 - N	7000	0.1	9.73×10^{-3}
2100030 - N			9.70×10^{-3}
2100060 - N			9.79×10^{-3}
2100090 - N			9.62×10^{-3}
2100120 - N			9.81×10^{-3}
2100150 - N			9.68×10^{-3}

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

POLYETHYLENE RESIN CERTIFICATION

Customer Name : Comanco Environmental Corp.
Project Name : International Uranium, UT
Geonet Manufacturer : SKAPS Industries
Geonet Production Plant : Commerce, GA
Geonet Brand Name : TN33000

We, the Geonet Manufacturer, hereby certify the following for the material delivered to the above referenced project:

Resin Supplier	Resin Production Plant	Resin Brand Name	Resin Lot Number	Property	Test Method	Units	Resin Supplier Value	Tested Value*
Trademark Plastics Corporation	Chevron, TX	HDPE	UTCX51681	Density	ASTM D 1505	gm/cc	0.951	0.950
				Melt Flow Index	ASTM D 1238[a]	gm/10 min	0.14	0.13

(a) Condition 190/2.16
* Data from SKAPS Quality Control

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 07 December 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 28-1	Revision No.: -	Contractor Submittal No.: 28-1
Specification Section(s): 02773	Date of Submittal Report: 07 December 2006	
Submittal Subject: Geonet Roll Test Data Reports		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by Meghan Lithgow	**Date** 12/7/06	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date** 12/7/06

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 28-1

Submitted:

No. of Copies: 1

[X] Original Submittal [ ] Supplement

[ ] Resubmittal [ ] Information Only

Submittal Description: Geonet Roll Test Data

Specification Identifier: 02773-7, Table 02773-1

Manufacturer: SKAPS Industries

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ] Code 1 - Approved

[ ] Code 2 - Approved As Noted

[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SKAPS Industries

Engineered Synthetic Products, Inc.

October 31, 2006
Comanco Environmental Corp.
7911 Professional Place
Tampa, FL 33637

Ref. : International Uranium, UT
Customer P.O. # 3117
Transnet 33000

We certify that the Transnet 33000 drainage composite, meets the project requirements as stated in the specifications. The properties listed in this section are:

Property	Test Method	Unit	Required Value	Qualifier
Geonet				
Mass per Unit Area	ASTM D 5261	lb/ft^2	0.30	Minimum
Thickness	ASTM D 5199	mil	300	Minimum
Carbon Black	ASTM D 4218	%	2.0	Minimum
Tensile Strength	ASTM D 5035	lb/in	75	Minimum
Melt Flow	ASTM D 1238[2]	g/10 min	1.0	Maximum
Density	ASTM D 1505	g/cc	0.94	Minimum
Transmissivity[1]	ASTM D 4716	m^2/sec	8.0×10^{-3}	Minimum

Notes:

[1] Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

2 Condition 190/2.16

Sincerely,

Nilay Patel

Nilay Patel
QA Manager

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritlfy the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100163	UTCX51681	0.9554					
2100164	UTCX51681	0.9554					
2100165	RTF120722	0.9550	0.379	318	2.48	108	
2100166	RTF120722	0.9550					
2100167	RTF120722	0.9550					
2100168	RTF120722	0.9550					
2100169	RTF120722	0.9550					
2100170	RTF120722	0.9550					
2100171	RTF120722	0.9550					
2100172	RTF120722	0.9550					
2100173	RTF120722	0.9550					
2100174	RTF120722	0.9550					
2100175	RTF120722	0.9550					
2100176	RTF120722	0.9550					
2100177	RTF120722	0.9550					
2100178	RTF120722	0.9550					
2100179	RTF120722	0.9550					
2100180	RTF120722	0.9550	0.386	327	2.78	114	9.75×10^{-3}
2100181	RTF120722	0.9550					
2100182	RTF120722	0.9550					
2100183	RTF120722	0.9550					
2100184	RTF120722	0.9550					
2100185	RTF120722	0.9550					
2100186	RTF120722	0.9550					
2100187	RTF120722	0.9550					
2100188	RTF120722	0.9550					
2100189	RTF120722	0.9550					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100190	RTF120722	0.9550					
2100191	RTF120722	0.9550					
2100192	RTF120722	0.9550					
2100193	RTF120722	0.9550					
2100194	RTF120722	0.9550					
2100195	RTF120722	0.9550	0.377	316	2.44	110	
2100196	RTF120722	0.9550					
2100197	RTF120722	0.9550					
2100198	RTF120722	0.9550					
2100199	RTF120722	0.9550					
2100200	RTF120722	0.9550					
2100201	RTF120722	0.9550					
2100202	RTF120722	0.9550					
2100203	RTF120722	0.9550					
2100204	RTF120722	0.9550					
2100205	RTF120722	0.9550					
2100206	RTF120722	0.9550					
2100207	RTF120722	0.9550					
2100208	RTF120722	0.9550					
2100209	RTF120722	0.9550					
2100210	RTF120722	0.9550	0.384	322	2.74	115	9.66×10^{-3}
2100211	RTF120722	0.9550					
2100212	RTF120722	0.9550					
2100213	RTF120722	0.9550					
2100214	RTF120722	0.9550					
2100215	RTF120722	0.9550					
2100216	RTF120722	0.9550					

* Transmissivity measured using water at 21 $\pm$ 2 °C (70 $\pm$ 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100217	RTF120722	0.9550					
2100218	RTF120722	0.9550					
2100219	RTF120722	0.9550					
2100220	RTF120722	0.9550					
2100221	RTF120722	0.9550					
2100222	RTF120722	0.9550					
2100223	RTF120722	0.9550					
2100224	RTF120722	0.9550					
2100225	RTF120722	0.9550	0.375	319	2.40	111	
2100226	RTF120722	0.9550					
2100227	RTF120722	0.9550					
2100228	RTF120722	0.9550					
2100229	RTF120722	0.9550					
2100230	RTF120722	0.9550					
2100231	RTF120722	0.9550					
2100232	RTF120722	0.9550					
2100233	RTF120722	0.9550					
2100234	RTF120722	0.9550					
2100235	RTF120722	0.9550					
2100236	RTF120722	0.9550					
2100237	RTF120722	0.9550					
2100238	RTF120722	0.9550					
2100239	RTF120722	0.9550					
2100240	RTF120722	0.9550	0.382	325	2.76	113	9.77×10^{-3}
2100241	RTF120722	0.9550					
2100242	RTF120722	0.9550					
2100243	RTF120722	0.9550					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100244	RTF120722	0.9550					
2100245	RTF120722	0.9550					
2100246	RTF120722	0.9550					
2100247	RTF120722	0.9550					
2100248	RTF120722	0.9550					
2100249	RTF120722	0.9550					
2100250	RTF120722	0.9550					
2100251	RTF120722	0.9550					
2100252	RTF120722	0.9550					
2100253	RTF120722	0.9550					
2100254	RTF120722	0.9550					
2100255	RTF120722	0.9550	0.373	321	2.36	108	
2100256	RTF120722	0.9550					
2100257	RTF120722	0.9550					
2100258	RTF120722	0.9550					
2100259	RTF120722	0.9550					
2100260	RTF120722	0.9550					
2100261	RTF120722	0.9550					
2100262	RTF120722	0.9550					
2100263	RTF120722	0.9550					
2100264	RTF120722	0.9550					
2100265	RTF120722	0.9550					
2100266	RTF120722	0.9550					
2100267	RTF120722	0.9550					
2100268	RTF120722	0.9550					
2100269	RTF120722	0.9550					
2100270	RTF120722	0.9550	0.380	327	2.80	116	9.64×10^{-3}

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100271	RTF120722	0.9550					
2100272	RTF120722	0.9550					
2100273	RTF120722	0.9550					
2100274	RTF120722	0.9550					
2100275	RTF120722	0.9550					
2100276	RTF120722	0.9550					
2100277	RTF120722	0.9550					
2100278	RTF120722	0.9550					
2100279	RTF120722	0.9550					
2100280	RTF120722	0.9550					
2100281	RTF120722	0.9550					
2100282	RTF120722	0.9550					
2100283	RTF120722	0.9550					
2100284	RTF120722	0.9550					
2100285	RTF120722	0.9550	0.371	317	2.30	111	
2100286	RTF120722	0.9550					
2100287	RTF120722	0.9550					
2100288	RTF120722	0.9550					
2100289	RTF120722	0.9550					
2100290	RTF120722	0.9550					
2100291	RTF120722	0.9550					
2100292	RTF120722	0.9550					
2100293	RTF120722	0.9550					
2100294	RTF120722	0.9550					
2100295	RTF120722	0.9550					
2100296	RTF120722	0.9550					
2100297	RTF120722	0.9550					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100298	RTF120722	0.9550					
2100299	RTF120722	0.9550					
2100300	RTF120722	0.9550	0.388	323	2.56	114	9.89×10^{-3}
2100301	RTF120722	0.9550					
2100302	RTF120722	0.9550					
2100303	RTF120722	0.9550					
2100304	RTF120722	0.9550					
2100305	RTF120722	0.9550					
2100306	RTF120722	0.9550					
2100307	RTF120722	0.9550					
2100308	RTF120722	0.9550					
2100309	RTF120722	0.9550					
2100310	RTF120722	0.9550					
2100311	RTF120722	0.9550					
2100312	RTF120722	0.9550					
2100313	RTF120722	0.9550					
2100314	RTF120722	0.9550					
2100315	RTF120722	0.9550	0.378	316	2.34	109	
2100316	RTF120722	0.9550					
2100317	RTF120722	0.9550					
2100318	RTF120722	0.9550					
2100319	RTF120722	0.9550					
2100320	RTF120722	0.9550					
2100321	RTF120722	0.9550					
2100322	RTF120722	0.9550					
2100323	RTF120722	0.9550					
2100324	RTF120722	0.9550					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

ASTM D 4716

Client:	Comanco Environmental Corp.	**Job #**	2100
Project:	International Uranium, UT		
Product:	TN33000		

Test Configuration:

12 X 12 Test Surface

Test Information:

Boundary Conditions:	60 mil liner Geonet 60 mil liner	**Normal Load:** **Gradient:** **Seating Time:** **Flow Direction:**	7000 psf 0.1 ft 1 hour MD

Test Results:

Roll No.	Pressure (psf)	Gradient, ft	Transmissivity, m^2/sec
			1 hour
2100180 - N	7000	0.1	9.75×10^{-3}
2100210 - N			9.66×10^{-3}
2100240 - N			9.77×10^{-3}
2100270 - N			9.64×10^{-3}
2100300 - N			9.89×10^{-3}

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

POLYETHYLENE RESIN CERTIFICATION

Customer Name : Comanco Environmental Corp.
Project Name : International Uranium, UT
Geonet Manufacturer : SKAPS Industries
Geonet Production Plant : Commerce, GA
Geonet Brand Name : TN33000

We, the Geonet Manufacturer, hereby certify the following for the material delivered to the above referenced project:

Resin Supplier	Resin Production Plant	Resin Brand Name	Resin Lot Number	Property	Test Method	Units	Resin Supplier Value	Tested Value*
United Polychem	Equistar	HDPE	RTF120722	Density	ASTM D 1505	gm/cc	0.950	0.950
				Melt Flow Index	ASTM D 1238[a]	gm/10 min	0.30	0.29

(a) Condition 190/2.16
* Data from SKAPS Quality Control

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

October 31, 2006
Comanco Environmental Corp.
7911 Professional Place
Tampa, FL 33637

Ref. : International Uranium, UT
Customer P.O. # 3117
Transnet 33000

We certify that the Transnet 33000 drainage composite, meets the project requirements as stated in the specifications. The properties listed in this section are:

Property	Test Method	Unit	Required Value	Qualifier
Geonet				
Mass per Unit Area	ASTM D 5261	lb/ft^2	0.30	Minimum
Thickness	ASTM D 5199	mil	300	Minimum
Carbon Black	ASTM D 4218	%	2.0	Minimum
Tensile Strength	ASTM D 5035	lb/in	75	Minimum
Melt Flow	ASTM D 1238[2]	g/10 min	1.0	Maximum
Density	ASTM D 1505	g/cc	0.94	Minimum
Transmissivity[1]	ASTM D 4716	m^2/sec	8.0×10^{-3}	Minimum

Notes:

1 Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

2 Condition 190/2.16

Sincerely,

Nilay Patel

Nilay Patel
QA Manager

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100325	RTF120722	0.9550					
2100326	RTF120722	0.9550					
2100327	RTF120722	0.9550					
2100328	RTF120722	0.9550					
2100329	RTF120722	0.9550					
2100330	8160667	0.9532	0.386	326	2.60	112	9.72×10^{-3}
2100331	8160667	0.9532					
2100332	8160667	0.9532					
2100333	8160667	0.9532					
2100334	8160667	0.9532					
2100335	8160667	0.9532					
2100336	8160667	0.9532					
2100337	8160667	0.9532					
2100338	8160667	0.9532					
2100339	8160667	0.9532					
2100340	8160667	0.9532					
2100341	8160667	0.9532					
2100342	8160667	0.9532					
2100343	8160667	0.9532					
2100344	8160667	0.9532					
2100345	8160667	0.9537	0.376	320	2.38	108	
2100346	8160667	0.9537					
2100347	8160667	0.9537					
2100348	8160667	0.9537					
2100349	8160667	0.9537					
2100350	8160667	0.9537					
2100351	8160667	0.9537					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : TN33000
Project : International Uranium, UT

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100352	8160667	0.9537					
2100353	8160667	0.9537					
2100354	8160667	0.9537					
2100355	8160667	0.9537					
2100356	8160667	0.9537					
2100357	8160667	0.9537					
2100358	8160667	0.9537					
2100359	8160667	0.9537					
2100360	8160667	0.9534	0.384	324	2.58	115	9.83×10^{-3}
2100361	8160667	0.9534					
2100362	8160667	0.9534					
2100363	8160667	0.9534					
2100364	8160667	0.9534					
2100365	8160667	0.9534					
2100366	8160667	0.9534					
2100367	8160667	0.9534					
2100368	8160667	0.9534					
2100369	8160667	0.9534					
2100370	8160667	0.9534					
2100371	8160667	0.9534					
2100372	8160667	0.9534					
2100373	8160667	0.9534					
2100374	8160667	0.9534					
2100375	8160667	0.9538	0.374	318	2.32	110	
2100376	8160667	0.9538					
2100377	8160667	0.9538					
2100378	8160667	0.9538					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby certify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100379	8160667	0.9538					
2100380	8160667	0.9538					
2100381	8160667	0.9538					
2100382	8160667	0.9538					
2100383	8160667	0.9538					
2100384	8160667	0.9538					
2100385	8160667	0.9538					
2100386	8160667	0.9538					
2100387	8160667	0.9538					
2100388	8160667	0.9538					
2100389	8160667	0.9538					
2100390	8160667	0.9530	0.382	328	2.73	113	9.70×10^{-3}
2100391	8160667	0.9530					
2100392	8160667	0.9530					
2100393	8160667	0.9530					
2100394	8160667	0.9530					
2100395	8160667	0.9530					
2100396	8160667	0.9530					
2100397	8160667	0.9530					
2100398	8160667	0.9530					
2100399	8160667	0.9530					
2100400	8160667	0.9530					
2100401	8160667	0.9530					
2100402	8160667	0.9530					
2100403	8160667	0.9530					
2100404	8160667	0.9530					
2100405	8160667	0.9536	0.372	317	2.28	109	

* Transmissivity measured using water at 21 $\pm$ 2 °C (70 $\pm$ 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100406	8160667	0.9536					
2100407	8160667	0.9536					
2100408	8160667	0.9536					
2100409	8160667	0.9536					
2100410	8160667	0.9536					
2100411	8160667	0.9536					
2100412	8160667	0.9536					
2100413	8160667	0.9536					
2100414	8160667	0.9536					
2100415	8160667	0.9536					
2100416	8160667	0.9536					
2100417	8160667	0.9536					
2100418	8160667	0.9536					
2100419	8160667	0.9536					
2100420	8160667	0.9531	0.380	324	2.79	116	9.87×10^{-3}
2100421	8160667	0.9531					
2100422	8160667	0.9531					
2100423	8160667	0.9531					
2100424	8160667	0.9531					
2100425	8160667	0.9531					
2100426	8160667	0.9531					
2100427	8160667	0.9531					
2100428	8160667	0.9531					
2100429	8160667	0.9531					
2100430	8160667	0.9531					
2100431	8160667	0.9531					
2100432	8160667	0.9531					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

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SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100433	8160667	0.9531					
2100434	8160667	0.9531					
2100435	8160667	0.9535	0.371	321	2.26	108	
2100436	8160667	0.9535					
2100437	8160667	0.9535					
2100438	8160667	0.9535					
2100439	8160667	0.9535					
2100440	8160667	0.9535					
2100441	8160667	0.9535					
2100442	8160667	0.9535					
2100443	8160667	0.9535					
2100444	8160667	0.9535					
2100445	8160667	0.9535					
2100446	8160667	0.9535					
2100447	8160667	0.9535					
2100448	8160667	0.9535					
2100449	8160667	0.9535					
2100450	8160667	0.9533	0.385	326	2.71	114	9.78×10^{-3}
2100451	8160667	0.9533					
2100452	8160667	0.9533					
2100453	8160667	0.9533					
2100454	8160667	0.9533					
2100455	8160667	0.9533					
2100456	8160667	0.9533					
2100457	8160667	0.9533					
2100458	8160667	0.9533					
2100459	8160667	0.9533					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100460	8160667	0.9533					
2100461	8160667	0.9533					
2100462	8160667	0.9533					
2100463	8160667	0.9533					
2100464	8160667	0.9533					
2100465	8160667	0.9539	0.379	319	2.53	110	
2100466	8160667	0.9539					
2100467	8160667	0.9539					
2100468	8160667	0.9539					
2100469	8160667	0.9539					
2100470	8160667	0.9539					
2100471	8160667	0.9539					
2100472	8160667	0.9539					
2100473	8160667	0.9539					
2100474	8160667	0.9539					
2100475	8160667	0.9539					
2100476	8160667	0.9539					
2100477	8160667	0.9539					
2100478	8160667	0.9539					
2100479	8160667	0.9539					
2100480	8160667	0.9534	0.387	328	2.69	115	9.85×10^{-3}
2100481	8160667	0.9534					
2100482	8160667	0.9534					
2100483	8160667	0.9534					
2100484	8160667	0.9534					
2100485	8160667	0.9534					
2100486	8160667	0.9534					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

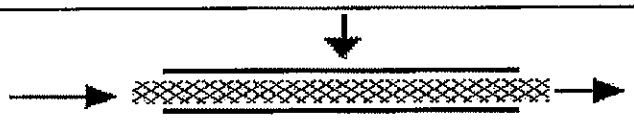
571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

ASTM D 4716

Client:	Comanco Environmental Corp.	**Job #**	2100
Project:	International Uranium, UT		
Product:	TN33000		

Test Configuration:



12 X 12 Test Surface

Test Information:

Boundary Conditions:	60 mil liner Geonet 60 mil liner	**Normal Load:** **Gradient:** **Seating Time:** **Flow Direction:**	7000 psf 0.1 ft 1 hour MD

Test Results:

Roll No.	Pressure (psf)	Gradient, ft	Transmissivity, m^2/sec
			1 hour
2100330 - N	7000	0.1	9.72×10^{-9}
2100360 - N			9.83×10^{-9}
2100390 - N			9.70×10^{-9}
2100420 - N			9.87×10^{-9}
2100450 - N			9.78×10^{-9}
2100480 - N			9.85×10^{-9}

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

POLYETHYLENE RESIN CERTIFICATION

Customer Name : Comanco Environmental Corp.
Project Name : International Uranium, UT
Geonet Manufacturer : SKAPS Industries
Geonet Production Plant : Commerce, GA
Geonet Brand Name : TN33000

We, the Geonet Manufacturer, hereby certify the following for the material delivered to the above referenced project:

Resin Supplier	Resin Production Plant	Resin Brand Name	Resin Lot Number	Property	Test Method	Units	Resin Supplier Value	Tested Value*
Chevron Phillips Chemical Company	Chevron, TX	HDPE	8160667	Density	ASTM D 1505	gm/cc	0.947	0.948
				Melt Flow Index	ASTM D 1238[a]	gm/10 min	0.25	0.28

(a) Condition 190/2.16
* Data from SKAPS Quality Control

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 04 January 2007	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 28-2	Revision No.: -	Contractor Submittal No.: 28-2
Specification Section(s): 02773	Date of Submittal Report: 04 January 2007	
Submittal Subject: Geonet Roll Test Data		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

1/4/07	1/4/07
Prepared by Meghan Lithgow — **Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E — **Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: IUC White Mesa Mill - Cell 4A Lining System

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 28-2 [X] Original Submittal [ ] Supplement

Submitted:

No. of Copies: 1 [ ] Resubmittal [ ] Information Only

Submittal Description: Geonet Roll Test Data

Specification Identifier: 02773-7, Table 02773-1

Manufacturer: SKAPS Industries

COMPLETED BY ENGINEER:

No. of Copies Received: No. of Copies Returned:

Status:

[ ] Code 1 - Approved

[ ] Code 2 - Approved As Noted

[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SKAPS Industries

Engineered Synthetic Products, Inc.

December 14, 2006
Comanco Environmental Corp.
7911 Professional Place
Tampa, FL 33637

Ref. : International Uranium, UT
Customer P.O. # 3117
Transnet 33000

We certify that the Transnet 33000 drainage composite, meets the project requirements as stated in the specifications. The properties listed in this section are:

Property	Test Method	Unit	Required Value	Qualifier
Geonet				
Mass per Unit Area	ASTM D 5261	lb/ft^2	0.30	Minimum
Thickness	ASTM D 5199	mil	300	Minimum
Carbon Black	ASTM D 4218	%	2.0	Minimum
Tensile Strength	ASTM D 5035	lb/in	75	Minimum
Melt Flow	ASTM D 1238[2]	g/10 min	1.0	Maximum
Density	ASTM D 1505	g/cc	0.94	Minimum
Transmissivity[1]	ASTM D 4716	m^2/sec	8.0×10^{-3}	Minimum

Notes:

1 Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil & liner after 1 hour.

2 Condition 190/2.16

Sincerely,

Nilay Patel

Nilay Patel
QA Manager

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100487	8160667	0.9534					
2100488	8160667	0.9534					
2100489	8160667	0.9534					
2100490	8160667	0.9534					
2100491	8160667	0.9534					
2100492	8160667	0.9534					
2100493	8160667	0.9534					
2100494	8160667	0.9534					
2100495	CCBX715665	0.9562	0.377	317	2.49	111	
2100496	CCBX715665	0.9562					
2100497	CCBX715665	0.9562					
2100498	CCBX715665	0.9562					
2100499	CCBX715665	0.9562					
2100500	CCBX715665	0.9562					
2100501	CCBX715665	0.9562					
2100502	CCBX715665	0.9562					
2100503	CCBX715665	0.9562					
2100504	CCBX715665	0.9562					
2100505	CCBX715665	0.9562					
2100506	CCBX715665	0.9562					
2100507	CCBX715665	0.9562					
2100508	CCBX715665	0.9562					
2100509	CCBX715665	0.9562					
2100510	CCBX715665	0.9562	0.389	322	2.75	113	9.74×10^{-3}
2100511	CCBX715665	0.9562					
2100512	CCBX715665	0.9562					
2100513	CCBX715665	0.9562					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100514	CCBX715665	0.9534					
2100515	CCBX715665	0.9534					
2100516	CCBX715665	0.9534					
2100517	CCBX715665	0.9534					
2100518	CCBX715665	0.9534					
2100519	CCBX715665	0.9534					
2100520	CCBX715665	0.9534					
2100521	CCBX715665	0.9534					
2100522	CCBX715665	0.9534					
2100523	CCBX715665	0.9534					
2100524	CCBX715665	0.9534					
2100525	CCBX715665	0.9534	0.375	316	2.51	109	
2100526	CCBX715665	0.9534					
2100527	CCBX715665	0.9534					
2100528	CCBX715665	0.9534					
2100529	CCBX715665	0.9534					
2100530	CCBX715665	0.9534					
2100531	CCBX715665	0.9534					
2100532	CCBX715665	0.9534					
2100533	CCBX715665	0.9534					
2100534	CCBX715665	0.9534					
2100535	CCBX715665	0.9534					
2100536	CCBX715665	0.9534					
2100537	CCBX715665	0.9534					
2100538	CCBX715665	0.9534					
2100539	CCBX715665	0.9534					
2100540	CCBX715665	0.9534	0.383	325	2.77	116	9.99×10^{-3}

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100541	CCBX715665	0.9534					
2100542	CCBX715665	0.9534					
2100543	CCBX715665	0.9534					
2100544	CCBX715665	0.9534					
2100545	CCBX715665	0.9534					
2100546	CCBX715665	0.9534					
2100547	CCBX715665	0.9534					
2100548	CCBX715665	0.9534					
2100549	CCBX715665	0.9534					
2100550	CCBX715665	0.9534					
2100551	CCBX715665	0.9534					
2100552	CCBX715665	0.9534					
2100553	CCBX715665	0.9534					
2100554	CCBX715665	0.9534					
2100555	CCBX715665	0.9534	0.373	320	2.47	111	
2100556	CCBX715665	0.9534					
2100557	CCBX715665	0.9534					
2100558	CCBX715665	0.9534					
2100559	CCBX715665	0.9534					
2100560	CCBX715665	0.9534					
2100561	CCBX715665	0.9534					
2100562	CCBX715665	0.9534					
2100563	CCBX715665	0.9534					
2100564	CCBX715665	0.9534					
2100565	CCBX715665	0.9534					
2100566	CCBX715665	0.9534					
2100567	CCBX715665	0.9534					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100568	CCBX715665	0.9534					
2100569	CCBX715665	0.9534					
2100570	CCBX715665	0.9534	0.381	323	2.63	114	9.76×10^{-3}
2100571	CCBX715665	0.9534					
2100572	CCBX715665	0.9534					
2100573	CCBX715665	0.9534					
2100574	CCBX715665	0.9534					
2100575	CCBX715665	0.9534					
2100576	CCBX715665	0.9534					
2100577	CCBX715665	0.9534					
2100578	CCBX715665	0.9534					
2100579	CCBX715665	0.9534					
2100580	CCBX715665	0.9534					
2100581	CCBX715665	0.9534					
2100582	CCBX715665	0.9534					
2100583	CCBX715665	0.9534					
2100584	CCBX715665	0.9534					
2100585	CCBX715665	0.9534	0.372	318	2.39	108	
2100586	CCBX715665	0.9534					
2100587	CCBX715665	0.9534					
2100588	CCBX715665	0.9534					
2100589	CCBX715665	0.9534					
2100590	CCBX715665	0.9534					
2100591	CCBX715665	0.9534					
2100592	CCBX715665	0.9534					
2100593	CCBX715665	0.9534					
2100594	CCBX715665	0.9534					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

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SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100595	CCBX715665	0.9534					
2100596	CCBX715665	0.9534					
2100597	CCBX715665	0.9534					
2100598	CCBX715665	0.9534					
2100599	CCBX715665	0.9534					
2100600	CCBX715665	0.9534	0.385	327	2.67	116	9.91×10^{-3}
2100601	CCBX715665	0.9534					
2100602	CCBX715665	0.9534					
2100603	CCBX715665	0.9534					
2100604	CCBX715665	0.9534					
2100605	CCBX715665	0.9534					
2100606	CCBX715665	0.9534					
2100607	CCBX715665	0.9534					
2100608	CCBX715665	0.9534					
2100609	CCBX715665	0.9534					
2100610	CCBX715665	0.9534					
2100611	CCBX715665	0.9534					
2100612	CCBX715665	0.9534					
2100613	CCBX715665	0.9534					
2100614	CCBX715665	0.9534					
2100615	CCBX715665	0.9534	0.380	316	2.37	110	
2100616	CCBX715665	0.9534					
2100617	CCBX715665	0.9534					
2100618	CCBX715665	0.9534					
2100619	CCBX715665	0.9534					
2100620	CCBX715665	0.9534					
2100621	CCBX715665	0.9534					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100622	CCBX715665	0.9534					
2100623	CCBX715665	0.9534					
2100624	CCBX715665	0.9534					
2100625	CCBX715665	0.9534					
2100626	CCBX715665	0.9534					
2100627	CCBX715665	0.9534					
2100628	CCBX715665	0.9534					
2100629	CCBX715665	0.9534					
2100630	CCBX715665	0.9534	0.387	322	2.61	115	9.84×10^{-3}
2100631	CCBX715665	0.9534					
2100632	CCBX715665	0.9534					
2100633	CCBX715665	0.9534					
2100634	CCBX715665	0.9534					
2100635	CCBX715665	0.9534					
2100636	CCBX715665	0.9534					
2100637	CCBX715665	0.9534					
2100638	CCBX715665	0.9534					
2100639	CCBX715665	0.9534					
2100640	CCBX715665	0.9534					
2100641	CCBX715665	0.9534					
2100642	CCBX715665	0.9534					
2100643	CCBX715665	0.9534					
2100644	CCBX715665	0.9534					
2100645	CCBX715665	0.9534	0.378	319	2.45	109	
2100646	CCBX715665	0.9534					
2100647	CCBX715665	0.9534					
2100648	CCBX715665	0.9534					

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **International Uranium, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
2100649	CCBX715665	0.9534					
2100650	CCBX715665	0.9534					
2100651	CCBX715665	0.9534					
2100652	CCBX715665	0.9534					
2100653	CCBX715665	0.9534					
2100654	CCBX715665	0.9534					
2100655	CCBX715665	0.9534					
2100656	CCBX715665	0.9534					
2100657	CCBX715665	0.9534					
2100658	CCBX715665	0.9534					
2100659	CCBX715665	0.9534					
2100660	CCBX72469	0.9552	0.389	325	2.65	114	9.95×10^{-3}
2100661	CCBX72469	0.9552					
2100662	CCBX72469	0.9552					
2100663	CCBX72469	0.9552					
2100664	CCBX72469	0.9552					
2100665	CCBX72469	0.9552					
2100666	CCBX72469	0.9552					
2100667	CCBX72469	0.9552					
2100668	CCBX72469	0.9552					
2100669	CCBX72469	0.9552					
2100670	CCBX72469	0.9552					
2100671	CCBX72469	0.9552					
2100672	CCBX72469	0.9552					
2100673	CCBX72469	0.9552					
2100674	CCBX72469	0.9552					
2100675	CCBX72469	0.9552	0.376	321	2.35	112	

* Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

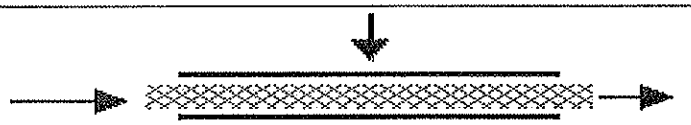
571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

ASTM D 4716

Client:	Comanco Environmental Corp.	**Job #**	2100
Project:	International Uranium, UT		
Product:	TN33000		

Test Configuration:



Test Information:

Boundary Conditions:	60 mil liner Geonet 60 mil liner	**Normal Load:** **Gradient:** **Seating Time:** **Flow Direction:**	7000 psf 0.1 ft 1 hour MD

Test Results:

Roll No.	Pressure (psf)	Gradient, ft	Transmissivity, m^2/sec
			1 hour
2100510 - N	7000	0.1	9.74×10^{-3}
2100540 - N			9.99×10^{-3}
2100570 - N			9.76×10^{-3}
2100600 - N			9.91×10^{-3}
2100630 - N			9.84×10^{-3}
2100660 - N			9.95×10^{-3}

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

POLYETHYLENE RESIN CERTIFICATION

Customer Name : Comanco Environmental Corp.
Project Name : International Uranium, UT
Geonet Manufacturer : SKAPS Industries
Geonet Production Plant : Commerce, GA
Geonet Brand Name : TN33000

We, the Geonet Manufacturer, hereby certify the following for the material delivered to the above referenced project:

Resin Supplier	Resin Production Plant	Resin Brand Name	Resin Lot Number	Property	Test Method	Units	Resin Supplier Value	Tested Value*
Trademark Plastics Corporation	Chevron, TX	HDPE	8160667	Density	ASTM D 1505	gm/cc	0.953	0.951
				Melt Flow Index	ASTM D 1238[a]	gm/10 min	0.14	0.13
			CCBX72469	Density	ASTM D 1505	gm/cc	0.951	0.950
				Melt Flow Index	ASTM D 1238[a]	gm/10 min	0.14	0.14

(a) Condition 190/2.16
* Data from SKAPS Quality Control

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 20 December 2006	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 29	Revision No.: -	Contractor Submittal No.: 29
Specification Section(s): 02771	Date of Submittal Report: 20 December 2006	
Submittal Subject: Geotextile Roll Data		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow — 20 Dec 2006

Prepared by Meghan Lithgow — **Date**

12/21/06

Engineer-of-Record Gregory T. Corcoran, P.E — **Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 29 [X] Original Submittal [ ] Supplement

Submitted:

No. of Copies: 1 [ ] Resubmittal [ ] Information Only

Submittal Description: Geotextile Roll Test Data

Specification Identifier: 02771, Table 02771-1

Manufacturer: SKAPS Industries

COMPLETED BY ENGINEER:

No. of Copies Received: No. of Copies Returned:

Status:

[ ] Code 1 - Approved

[ ] Code 2 - Approved As Noted

[ ] Code 3 - Approved As Noted, Confirm

[ ] Code 4 - Approved As Noted, Resubmit

[ ] Code 5 - Not Approved

[ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

SKAPS Industries (Nonwoven Division)
316 South Holland Drive
Pendergrass, GA 30567 (U.S.A.)
Phone (706) 693-3440 Fax (706) 693-3450
E-mail: info@skaps.com

Sales Office:
Engineered Synthetic Product Inc.
Phone: (770)564-1857
Fax: (770)564-1818

December 18, 2006
Comanco Environmental Corporation
7911 Professional Place
Tampa, FL 33637
Ref : International Uranium
PO : 3117

Dear Sir/Madam:

This is to certify that SKAPS GE116 is a high quality needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, randomly networked to form a high strength dimensionally stable fabric. SKAPS GE116 resists ultraviolet deterioration, rotting, biological degradation. The fabric is inert to commonly encountered soil chemicals. Polypropylene is stable within a pH range of 2 to 13. SKAPS GE116 conforms to the property values listed below:

PROPERTY	TEST METHOD	UNITS	M.A.R.V. Minimum Average Roll Value
Weight	ASTM D 5261	oz/sy (g/m^2)	16.00 (543)
Thickness*	ASTM D 5199	mils (mm)	175 (4.45)
Grab Tensile	ASTM D 4632	lbs (kN)	425 (1.89)
Grab Elongation	ASTM D 4632	%	50
Trapezoidal Tear	ASTM D 4533	lbs (kN)	150 (0.67)
Puncture Resistance	ASTM D 4833	lbs (kN)	240 (1.07)
Mullen Burst Strength	ASTM D 3786	psi (kPa)	800 (5516)
Permittivity*	ASTM D 4491	sec^{-1}	0.57
Permeability*	ASTM D 4491	cm/sec	0.25
Water Flow*	ASTM D 4491	gpm/ft^2 ($l/min/m^2$)	45 (1833)
AOS*	ASTM D 4751	US Sieve (mm)	100 (0.15)
UV Resistance	ASTM D 4355	%/hrs	70/500

Notes:
* At the time of manufacturing. Handling may change these properties.

ANURAG SHAH
QUALITY CONTROL MANAGER

Product : GE116-15

ROLL # ASTM METHOD UNITS TARGET	WEIGHT D5261 oz/sq yd 16.00	THICKNESS D5199 (mils) 175	MD TENSILE D4632 lbs. 425	MD ELONG D4632 % 50	XMD TENSILE D4632 lbs 425	XMD ELONG D4632 % 50	MD TRAP D4533 lbs. 150	XMD TRAP D4533 lbs 150	PUNCTURE D4833 lbs. 240	MULLEN D3786 psi 800	AOS D4751 US Sieve 100	WATER FLOW D4491 gpm/ft^2 45	PERMEAB-ILITY D4491 cm/sec 0.25	PERMITT-IVITY D4491 sec^{-1} 0.57
2753.01	16.29	181	436	76	463	83	159	167	246	808	100	46	0.28	0.61
2753.02	16.29	181	436	76	463	83	159	167	246	808	100	46	0.28	0.61
2753.03	16.29	181	436	76	463	83	159	167	246	808	100	46	0.28	0.61
2753.04	16.29	181	436	76	463	83	159	167	246	808	100	46	0.28	0.61
2753.05	16.50	177	431	71	450	89	159	167	246	808	100	46	0.28	0.61
2753.06	16.50	177	431	71	450	89	159	167	246	808	100	46	0.28	0.61
2753.07	16.50	177	431	71	450	89	159	167	246	808	100	46	0.28	0.61
2753.08	16.50	177	431	71	450	89	159	167	246	808	100	46	0.28	0.61
2753.09	16.50	177	431	71	450	89	159	167	246	808	100	46	0.28	0.61
2753.10	16.34	179	439	78	459	85	153	161	241	805	100	46	0.28	0.61
2753.11	16.34	179	439	78	459	85	153	161	241	805	100	46	0.28	0.61

*All values are MARV.

GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 18 September 2007	**Job No.:** SC-0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 30	Revision No.: -	Contractor Submittal No.: 30
Specification Section(s): 02771	Date of Submittal Report: 17 September 2007	
Submittal Subject: Woven Geotextile Properties		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by Meghan Lithgow	**Date** 18 Sep 07	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date** 9/18/07

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 30

Submitted:

No. of Copies: 1

- [x] Original Submittal
- [ ] Resubmittal
- [ ] Supplement
- [ ] Information Only

Submittal Description: Woven Geotextile Properties

Specification Identifier: N/A

Manufacturer: Propex

COMPLETED BY ENGINEER:

No. of Copies Received:

No. of Copies Returned:

Status:

- [ ] Code 1 - Approved
- [ ] Code 2 - Approved As Noted
- [ ] Code 3 - Approved As Noted, Confirm
- [ ] Code 4 - Approved As Noted, Resubmit
- [ ] Code 5 - Not Approved
- [ ] Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

PRODUCT DATA SHEET

GEOTEX® 200ST

200 ST ?
NET ?

our specs say "nonwoven" ok

GEOTEX 200ST is a woven slit film geotextile produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The individual slit films are woven together in such a manner as to provide dimensional stability relative to each other. The construction of the geotextile makes **GEOTEX 200ST** ideal for soil separation and stabilization and meets AASHTO M288 Class III standards. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

GEOTEX 200ST conforms to the property values listed below.[1] Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

		MARV[2]	
PROPERTY	TEST METHOD	ENGLISH	METRIC
Mechanical			
Tensile Strength (Grab)	ASTM D-4632	200 lbs	890 N
Elongation	ASTM D-4632	15 %	15 %
Puncture	ASTM D-4833	95 lbs	422 N
Mullen Burst	ASTM D-3786	460 psi	3170 kPa
Trapezoidal Tear	ASTM D-4533	75 lbs	330 N
Endurance			
UV Resistance	ASTM D-4355	70%	70%
Hydraulic			
Apparent Opening Size (AOS)[3]	ASTM D-4751	40 US Std. Sieve	0.425 mm
Permittivity	ASTM D-4491	0.05 sec^{-1}	0.05 sec^{-1}
Water Flow Rate	ASTM D-4491	4 gpm/ft^2	160 $l/min/m^2$
Roll Sizes		12.5 ft x 432 ft 15.0 ft x 360 ft 17.5 ft x 360 ft	3.81 m x 131.7 m 4.57 m x 109.8 m 5.33 m x 109.8 m

NOTES:
1. The property values listed above are effective 08/2006 and are subject to change without notice.
2. Values reported in weaker principal direction. All values listed are Minimum Average Roll Values (MARV) unless otherwise noted, calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported. Maximum Average Roll Value (MaxARV) is calculated as typical plus two standard deviations.
3. Maximum average roll value.

PROPEX GEOSYNTHETICS | THE ADVANTAGE CREATORS.™

Propex Inc.
6025 Lee Highway, Suite 425
PO Box 22788
Chattanooga, TN 37422

PH: 423 899 0444
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www.geotextile.com

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10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 10 December 2007	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 31	Revision No.: -	Contractor Submittal No.: 31
Specification Section(s): 02772-1, 1.05, 5,a.b.	Date of Submittal Report: 10 December 2007	
Submittal Subject: GCL Roll Test Data – ADDITIONAL ROLLS		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Meghan Lithgow	11 DEC 07		12/11/07
Prepared by Meghan Lithgow	**Date**	**Engineer-of-Record** Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **IUC White Mesa Mill - Cell 4A Lining System**

Owner: International Uranium Corporation

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No.	31	☒	Original Submittal	☐	Supplement
Submitted:		☐	Resubmittal	☐	Information Only
No. of Copies:	1				

Submittal Description: GCL Roll Test Data - ADDITIONAL ROLLS

Specification Identifier: O2772-1, 1.05, 5,a.b.

Manufacturer: CETCO

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:				
☐	Code 1 - Approved	☐	Code 4 - Approved As Noted, Resubmit
☐	Code 2 - Approved As Noted	☐	Code 5 - Not Approved
☐	Code 3 - Approved As Noted, Confirm	☐	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

☒ NO EXCEPTION TAKEN ☐ SUBMIT SPECIFIED ITEM
☐ REVISE AND RESUBMIT ☐ MAKE CORRECTIONS NOTED
☐ REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 12/11/07 By: _____

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Date: 12/7/2007
Purchase Order: 3981
ORDER NUMBER: 000234363

Jerry Pryor
Comanco

Plant City, FL 33566
jpryor@comanco.net

To Whom it May Concern:

Please find enclosed the MQA/MQC test data package for Geosynthetic Clay Liner shipments to Comanco. The shipments will leave from our Lovell, Wyoming plant following your approval.

If you have any questions regarding this information, please contact me at 800-322-1149 ext. 423.

Sincerely,

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GEOSYNTHETIC CLAY LINER
MANUFACTURING QUALITY ASSURANCE DATA PACKAGE

PROJECT NAME: Intl Uranium UAS
CUSTOMER P.O.: 3981
ORDER NUMBER: 000234363
PREPARED FOR: Comanco

CONTENTS:

- Daily production and needle detection certification
- GCL property specifications
- Order packing list
- GCL MQA tracking form
- GCL manufacturing quality control test data
- Bentonite clay certification
- Raw material test results

PREPARED BY: Roger B. Wilkerson
Quality Assurance Coordinator
CETCO
P.O. Box 428
92 Hwy. 37
Lovell, WY 82431

Telephone: 800-322-1149 ext. 423
Fax:
E-Mail: rwilke@cetco.com

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

PRODUCTION CERTIFICATION

PROJECT NAME: Intl Uranium UAS
CUSTOMER P.O.: 3981
PREPARED FOR: Comanco

CETCO affirms that these products meet the physical and chemical criteria listed on the attached GCL property specification sheet.

NEEDLE REMOVAL AND DETECTION PROCEDURE

CETCO hereby affirms that all Bentomat® geosynthetic clay liner material manufactured for this project is continually passed under a magnet for needle removal and then screened with a metal detection device. CETCO certifies Bentomat® to be essentially free of broken needles and fragments of needles that would negatively effect the performance of the final product.

Roger B. Wilkerson
Quality Assurance Coordinator
Colloid Environmental Technologies Co. (CETCO)

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

Ship Date: 12/6/2007
Order Number: 000234363
Prepared For: Comanco

The GCL raw materials and GCL finished product manufactured for the above-referenced order number(s) are hereby certified to achieve the properties listed in the tables below.

GCL PROPERTY SPECIFICATIONS FOR BENTOMAT ST

Test Method	Test Method Property	Test Frequency	Certified Value
ASTM D 5891	Bentonite Fluid Loss	1 per 50 Tons	18 ml Max
ASTM D 5993	Bentonite Mass/Area	40,000 sq ft (4000 sq m)	0.75 lb /sq ft (3.6 kg/sq m) Min
ASTM D 5890	Bentonite Swell Index	1 per 50 Tons	24 ml/2g Min
ASTM D 4632	GCL Grab Strength	200,000 sq ft (20,000 sq m)	90 lbs (400 N) MARV
ASTM D 6768	GCL Grab Strength	200,000 sq ft (20,000 sq m)	30 lbs/in MARV
ASTM D 5321	GCL Hydrated Internal Shear Strength	Periodic	500 psf (24 kPa) typ @ 200 psf
ASTM D 5887	GCL Hydraulic Conductivity	Weekly	5 x 10^-9 cm/ sec Max
ASTM D 5887	GCL Index Flux	Weekly	1 x 10^-8 m^3/m^2/sec Max
ASTM D 6496	GCL Peel Strength	40,000 sq ft (4000 sq m)	3.5 lbs/in Min
ASTM D 4632	GCL Peel Strength	40,000 sq ft (4000 sq m)	15 lbs (65 N) Min

SPECIALY REQUESTED CERTIFIED PROPERTIES FOR THIS ORDER OF BENTOMAT ST

Test Method	Test Method Property	Requested Frequency	Requested Value	Requested Conditions
ASTM D 5887	GCL Hydraulic Conductivity	1/200,000 sqft	Standard	Standard
ASTM D 4643	GCL Moisture	Standard	30 % Max	Standard

entonite property tests are performed at a bentonite processing facility before shipment to CETCO's production facility.
ll tensile testing is in the machine direction.

FABRIC SUPPLIER REQUIREMENTS FOR BENTOMAT ST

Raw Material	test method	mass per area	units
Nonwoven Cover Fabric	ASTM D 5261	6.0	oz/yd2
Bentomat ST Woven Base Fabric	ASTM D 5261	3.2	oz/yd2

Fabric certifications from our raw material suppliers are on file at our production facility.

CETCO's MQA laboratory is GAI-accredited (www.geosynthetic-institute.org/gai/lab.html).

Roger B. Wilkerson
Quality Assurance Coordinator
CETCO Lovell Plant

CETCO
LINING TECHNOLOGIES
800.527.9948 www.cetco.com

GCL ORDER PACKING LIST

GCL shipped for certification package number 000234363

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000234363	LO-BENTOMAT ST	200749LO	00005852	200	15	3000	3333
000234363	LO-BENTOMAT ST	200749LO	00005853	200	15	3000	3350
000234363	LO-BENTOMAT ST	200749LO	00005854	200	15	3000	3360
000234363	LO-BENTOMAT ST	200749LO	00005855	200	15	3000	3362
000234363	LO-BENTOMAT ST	200749LO	00005856	200	15	3000	3374
000234363	LO-BENTOMAT ST	200749LO	00005857	200	15	3000	3357
000234363	LO-BENTOMAT ST	200749LO	00005858	200	15	3000	3361
000234363	LO-BENTOMAT ST	200749LO	00005859	200	15	3000	3369
000234363	LO-BENTOMAT ST	200749LO	00005860	200	15	3000	3372
000234363	LO-BENTOMAT ST	200749LO	00005861	200	15	3000	3364
00234363	LO-BENTOMAT ST	200749LO	00005862	200	15	3000	3360
000234363	LO-BENTOMAT ST	200749LO	00005863	200	15	3000	3355
000234363	LO-BENTOMAT ST	200749LO	00005864	200	15	3000	3349
000234363	LO-BENTOMAT ST	200749LO	00005865	200	15	3000	3362
000234363	LO-BENTOMAT ST	200749LO	00005866	200	15	3000	3370
000234363	LO-BENTOMAT ST	200749LO	00005867	200	15	3000	3366
000234363	LO-BENTOMAT ST	200749LO	00005868	200	15	3000	3362
000234363	LO-BENTOMAT ST	200749LO	00005869	200	15	3000	3371
000234363	LO-BENTOMAT ST	200749LO	00005870	200	15	3000	3380
000234363	LO-BENTOMAT ST	200749LO	00005871	200	15	3000	3355
000234363	LO-BENTOMAT ST	200749LO	00005872	200	15	3000	3367
000234363	LO-BENTOMAT ST	200749LO	00005873	200	15	3000	3379
000234363	LO-BENTOMAT ST	200749LO	00005874	200	15	3000	3352
000234363	LO-BENTOMAT ST	200749LO	00005875	200	15	3000	3360
000234363	LO-BENTOMAT ST	200749LO	00005876	200	15	3000	3378
000234363	LO-BENTOMAT ST	200749LO	00005877	200	15	3000	3350
000234363	LO-BENTOMAT ST	200749LO	00005878	200	15	3000	3366

Order #	Product	Lot Number	Roll Number	Length (ft)	Width (ft)	Square Ft	Weight (lbs)
000234363	LO-BENTOMAT ST	200749LO	00005879	200	15	3000	3373
000234363	LO-BENTOMAT ST	200749LO	00005880	200	15	3000	3370
000234363	LO-BENTOMAT ST	200749LO	00005881	200	15	3000	3364
000234363	LO-BENTOMAT ST	200749LO	00005882	200	15	3000	3368
000234363	LO-BENTOMAT ST	200749LO	00005883	200	15	3000	3373
000234363	LO-BENTOMAT ST	200749LO	00005884	200	15	3000	3370
000234363	LO-BENTOMAT ST	200749LO	00005885	200	15	3000	3380
			Totals:	**6800**	**510**	**102000**	**114382**
				Total Number of Rolls Certified: **34**			

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GCL MQA TRACKING FORM

Listing of finished and raw materials used to produce certification package number 000234363

GCL			Geotextiles				Clay
LO-BENTOMAT ST			LO-N/W-WHITE-ST			LO-WOVEN-ST	LO-CG 50-ST
GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
200749LO	00005852	00005852	2008673883			2009433712	112907C
200749LO	00005853	00005852	2008673883			2009433712	112907C
200749LO	00005854	00005852	2009494493			2009433712	112907C
200749LO	00005855	00005852	2009494493			2009433712	112907C
200749LO	00005856	00005852	2009494493			2009433712	112907C
200749LO	00005857	00005852	2009494493			2009433712	112907C
200749LO	00005858	00005852	2009494493			2009433712	112907C
200749LO	00005859	00005852	2009494493			2009433712	112907C
200749LO	00005860	00005852	2009451001			2009433712	112907C
200749LO	00005861	00005852	2009451001			2009433712	112907C
200749LO	00005862	00005852	2009451001			2009433712	112907C
200749LO	00005863	00005852	2009451001			2009059622	112907C
200749LO	00005864	00005852	2009451001			2009059622	112907C
200749LO	00005865	00005865	2009451001			2009059622	112907C
200749LO	00005866	00005865	2009451001			2009059622	112907C
200749LO	00005867	00005865	2009450976			2009059622	112907C
200749LO	00005868	00005865	2009450976			2009059622	112907C
200749LO	00005869	00005865	2009450976			2009059622	112907C
200749LO	00005870	00005865	2009450976			2009059622	113007A
200749LO	00005871	00005865	2009450976			2009059622	113007A
200749LO	00005872	00005865	2009450976			2009059622	113007A
200749LO	00005873	00005865	2009450976			2009059622	113007A
200749LO	00005874	00005865	2009450977			2009059622	113007A
200749LO	00005875	00005865	2009450977			2009059622	113007A
200749LO	00005876	00005865	2009450977			2009059622	113007A
200749LO	00005877	00005865	2009450977			2009059622	113007A
200749LO	00005878	00005878	2009450977			2009059622	113007A
200749LO	00005879	00005878	2009450977			2009059622	113007A
200749LO	00005880	00005878	2009450977			2009059622	113007A

GCL Lot #	GCL Roll #	Roll # Tested	Cap Lot #	Cap Roll #	Roll # Tested	Base Roll #	Clay Lot #
2007491LO	00005881	00005878	2009494494			2009059622	113007A
2007491LO	00005882	00005878	2009494494			2009059622	113007A
2007491LO	00005883	00005878	2009494494			2009059622	113007A
2007491LO	00005884	00005878	2009494494			2009286493	113007A
2007491LO	00005885	00005878	2009494494			2009286493	113007A

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GCL MANUFACTURING QUALITY CONTROL TEST DATA

The following rolls in GCL certification package number 000234363 have been tested in our production facility lab.

Product	Lot # Tested	Roll # Tested	Mass Area	Grab Strength	Peel Strength
		Standard Test Method:	ASTM D 5993	ASTM D 6768	ASTM D 6496
		Standard Specification:	0.75 lb/sq ft MARV	30lbs/in MARV	3.5lbs/in MARV
Non-standard specifications were requested for this order as indicated on the attatched property sheet					
LO-BENTOMAT ST	200749LO	00005852	0.83	70.1	8.7
LO-BENTOMAT ST	200749LO	00005865	0.84	70.1	4.8
LO-BENTOMAT ST	200749LO	00005878	0.91	70.1	7

Product	Lot # Tested	Roll # Tested	Moisture
LO-BENTOMAT ST	200749LO	00005852	26.6
LO-BENTOMAT ST	200749LO	00005865	26.1
LO-BENTOMAT ST	200749LO	00005878	26.7

ASTM test methods and property specifications per CETCO standard unless non-standard specifications were requested.
Any non-standard property specifications requested for this order are noted on the attached GCL property specifications sheet.

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BENTONITE CLAY CERTIFICATION

The Bentonite Clay used to produce Order 000234363
has been certified by CETCO with the following test results

Reference	Swell	Fluid Loss
Test Method:	ASTM D 5890	ASTM D 5891
Specification:	24 Min	18 ml Max
112907C	30.0	14.6
113007A	29.0	14.6

Tests approved by
Roger B. Wilkerson
CETCO
)uality Assurance Coordinator

CETCO
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800.527.9948 www.cetco.com

GEOTEXTILE TEST RESULTS FROM MATERIAL SUPPLIERS

The GCL in certification package number 000234363was manufactured with geotextiles which were tested with the following results.

BASE

Material	Roll Number	Mass Area oz/yd2	Grab Strenth lbs
PPX 82TEX	2009059622	3.4	175.0
PPX 82TEX	2009286493	3.3	177.0
PPX 82TEX	2009433712	3.5	194.0

CAP

Material	Roll Number	Mass Area oz/yd2	Grab Strenth lbs
PPX 650	2009451001	6.7	156.2
PPX 650	2009494494	7.5	111.8
PPX 650	2009494493	7.5	111.8
PPX 650	2009450976	8.0	163.2
PPX 650	2009450977	8.0	163.2
PPX 650	2008673883	6.9	71.3

Certifications from our suppliers are on file at our production facility. An '*' or 'PT' indicates supplier certifications were unavailable prior to shipping so testing was performed at a CETCO lab.

Geosyntec consultants GEOSYNTEC CONSULTANTS

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 9 May 2008	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 32	Revision No.: -	Contractor Submittal No.: 32
Specification Section(s): N/A	Date of Submittal Report: 9 May 2008	
Submittal Subject: Geonet Conceptual Panel Layout		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

Prepared by	**Date**	**Engineer-of-Record**	**Date**
Meghan Lithgow	05/09/08	Gregory T. Corcoran, P.E	5/9/08

Distribution: ☒ File

Geosyntec consultants **GEOSYNTEC CONSULTANTS**

10875 Rancho Bernardo Rd. · Suite 200
San Diego, California 92127 · USA
Tel (858) 674-6559 · Fax (858) 674-6586

SUBMITTAL COVER SHEET

TO:	Mr. Jeryl Pryor
ADDRESS:	Comanco Environmental Corporation
	1135 Terminal Way, Suite 204A
	Reno, Nevada 89502

Date: 29 June 2008	**Job No.:** SC0349-02
Project Name	
International Uranium (USA) Corporation	
White Mesa Mill	
Cell 4A	

Submittal I.D. No.: 40	Revision No.: -	Contractor Submittal No.: 40
Specification Section(s): 02773-7, Table 02773-1	Date of Submittal Report: 29 June 2008	
Submittal Subject: Geonet Roll Test Data		

Notations:

- ☒ No Exception Taken
- ☐ Correct as Noted
- ☐ Rejected
- ☐ Revise and Resubmit
- ☐ Submit Specified Items

Remarks:

Review of this submittal does not relieve the Contractor from their responsibility for deviations from the Contract Documents nor from their responsibility for errors or omissions in the submittal. Contractor is, and Engineer is not, responsible for matters relating to fabrication, shipping, handling, storage, assembly, installation, construction (including safety), and coordination for performing the Work

06/27/08	6/27/08
Prepared by Meghan Lithgow	**Date**
Engineer-of-Record Gregory T. Corcoran, P.E	**Date**

Distribution: ☒ File

COMANCO ENVIRONMENTAL CORPORATION
1135 Terminal Way, Suite 204A - Reno, Nevada 89502
Phone (775) 324-7707 Fax (775) 324-7708

SUBMITTAL CONTROL FORM TO ENGINEER

Project: **White Mesa Mill - Cell 4A Lining System**

Owner: Denison Mines Corp.

Engineer: GeoSyntec Consultants

Contractor: COMANCO Environmental Corporation

Submittal No. 40 | [X] Original Submittal | [ ] Supplement

Submitted:

No. of Copies: 1 | [ ] Resubmittal | [ ] Information Only

Submittal Description: Geonet Roll Test Data

Specification Identifier: O2773-7, Table 02773-1

Manufacturer: SKAPS Industries

COMPLETED BY ENGINEER:

No. of Copies Received: _____ No. of Copies Returned: _____

Status:

[ ]	Code 1 - Approved	[ ]	Code 4 - Approved As Noted, Resubmit
[ ]	Code 2 - Approved As Noted	[ ]	Code 5 - Not Approved
[ ]	Code 3 - Approved As Noted, Confirm	[ ]	Code 6 - Comments Attached

Engineer Stamp or Remarks Area:

[X] NO EXCEPTION TAKEN [ ] SUBMIT SPECIFIED ITEM
[ ] REVISE AND RESUBMIT [ ] MAKE CORRECTIONS NOTED
[ ] REJECTED

Corrections of comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

GEOSYNTEC CONSULTANTS

Date: 6/27/08 By: _____

SKAPS Industries

Engineered Synthetic Products, Inc.

June 27, 2008
Comanco Environmental Corp.

Ref. : IUC White Mesa Facility, UT
Customer P.O. # 4218
Transnet 33000

We certify that the Transnet 33000 drainage composite, meets the project requirements as stated in the specifications. The properties listed in this section are:

Property	Test Method	Unit	Required Value	Qualifier
Geonet				
Mass per Unit Area	ASTM D 5261	lb/ft^2	0.30	Minimum
Thickness	ASTM D 5199	mil	300	Minimum
Carbon Black	ASTM D 4218	%	2.0	Minimum
Tensile Strength	ASTM D 5035	lb/in	75	Minimum
Melt Flow	ASTM D 1238[2]	g/10 min	1.0	Maximum
Density	ASTM D 1505	g/cc	0.94	Minimum
Transmissivity[1]	ASTM D 4716	m^2/sec	8.0×10^{-3}	Minimum

Notes:

1 Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

2 Condition 190/2.16

Sincerely,

Nilay Patel

Nilay Patel
QA Manager

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

Engineered Synthetic Products, Inc.

Product : **TN33000**
Project : **IUC White Mesa Facility, UT**

We, the Geonet Manufacturer, hereby ceritify the following for the material sent to the above referenced project :

Geonet Roll Number	Resin Lot Number	Geonet Density (gm/cc)	Mass Per Unit Area (lb/ft^2)	Thickness (mils)	Carbon Black (%)	Tensile Strength (MD) (lb/in)	Transmissivity* (m^2/sec)
279710001	EQUX621168	0.9547	0.350	314	2.54	111	9.13×10^{-3}
279710002	EQUX621168	0.9547					
279710003	EQUX621168	0.9547					
279710004	EQUX621168	0.9547					
279710005	EQUX621168	0.9547					

* Transmissivity measured using water at 21 $\pm$ 2 °C (70 $\pm$ 4 °F) with a gradient of 0.1 and a confining pressure of 7000 psf between 60 mil liner after 1 hour.

APPROVED 5 QA

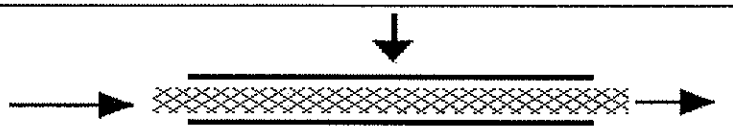
571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 Fax: 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

ASTM D 4716

Client:	Comanco Environmental Corp.	**Job #**	2797
Project:	IUC White Mesa Facility, UT		
Product:	TN33000		

Test Configuration:



12 X 12 Test Surface

Test Information:

Boundary Conditions:	60 mil liner Geonet 60 mil liner	**Normal Load:** **Gradient:** **Seating Time:** **Flow Direction:**	7000 psf 0.1 ft 1 hour MD

Test Results:

Roll No.	Pressure, psf	Gradient, ft	Transmissivity, m^2/sec
			1 hour
279710001	7000	0.1	9.13×10^{-3}

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

SKAPS Industries

POLYETHYLENE RESIN CERTIFICATION

Customer Name : Comanco Environmental Corp.
Project Name : IUC White Mesa Facility, UT
Geonet Manufacturer : SKAPS Industries
Geonet Production Plant : Commerce, GA
Geonet Brand Name : TN33000

We, the Geonet Manufacturer, hereby certify the following for the material delivered to the above referenced project:

Resin Supplier	Resin Production Plant	Resin Brand Name	Resin Lot Number	Property	Test Method	Units	Resin Supplier Value	Tested Value*
Matrix Polymers	FORMOSA	HDPE	EQUX621168	Density	ASTM D 1505	gm/cc	0.950	0.950
				Melt Flow Index	ASTM D 1238[(a)]	gm/10 min	0.36	0.34

(a) Condition 190/2.16
* Data from SKAPS Quality Control

APPROVED 5 QA

571 Industrial Parkway, Commerce, GA 30529 **Phone:** 706-336-7000 **Fax:** 706-336-7007 **Email:** skaps@skaps.com

APPENDIX C

SUBGRADE COMPACTION

APPENDIX C-1

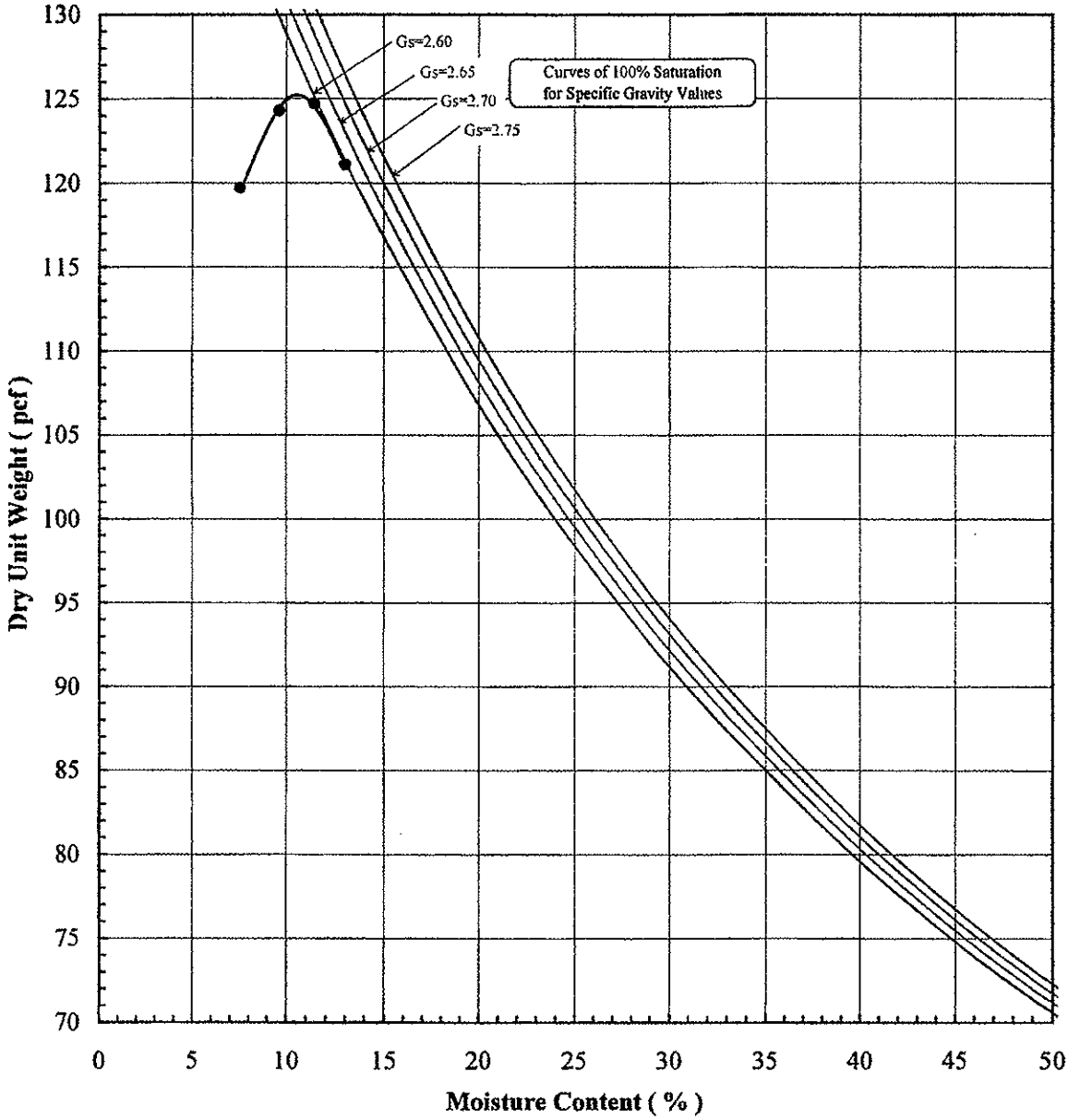
SUBGRADE IN-SITU RESULTS

Proctor 1

Excel Geotechnical Testing
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name:	IUC White Mesa Mill
Project No:	165
Client Sample ID:	Mix 1*
Lab Sample No:	K265

ASTM D 1557 **COMPACTION MOISTURE-DENSITY RELATIONSHIP** Modified - Method B



Client/Site Sample ID.	Lab Sample No:	Maximum Dry Unit Weight (pcf)	Optimum Moisture Content (%)	Remarks
Mix 1*	K265	125.4	10.4	

Note(s):

* A mixture of equal volumes of C1S1-C, C1S1-E and C1S1-G.

APPENDIX C-2

FIELD NUCLEAR DENSITY/MOISTURE TEST RESULTS

Geosyntec consultants

DENISON MINES

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A DATE: 8 day 29 month 2007 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 8 (in.)

MINIMUM COMPACTION: 90 (%) ☐ ASTM D 698 ☑ ASTM D 1557 MOISTURE CONTENT RANGE: - 7.4 % to + 13.4 % of OPT.

NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 18744 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT[1] (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	A1 - Cell 4A	8" / 1	K265	10.4	125.4	12.7 / 11.0	127.4	114.8	91.5	—				
2	B1	" / 1	"	"	125.4	12.5 / 10.9	127.3	114.8	91.5	—				
3	C1	" / 1	"	"	"	15.8 / 13.9	129.9	114.0	90.9	—				
4	D1	" / 1	"	"	"	12.9 / 11.3	127.1	114.1	91.0	—				
5	B2	" / 2	"	"	"	13.9 / 12.2	128.4	114.5	91.3	—				
6	C2	" / 2	"	"	"	11.7 / 10.0	120.7	117.0	93.3	—				
7	D2	" / 2	"	"	"	13.8 / 12.0	129.6	115.8	92.5	—				
8	A5	" / 1	"	"	"	13.0 / 11.1	129.8	116.8	93.1	—				
9	B5	" / 1	"	"	"	10.1 / 8.9	123.6	113.5	90.5	—				
10	C5	" / 1	"	"	"	10.2 / 9.0	123.7	113.5	90.5	—				
11	D5	" / 1	"	"	"	10.2 / 8.7	126.9	116.7	93.0	—				
12	A4	" / 1	"	"	"	9.8 / 8.4	*116.9 → 126.7		93.2	—				
13	B4	" / 1	"	"	"	10.8 / 9.3	126.9	116.0	92.5	—				
14	C4	" / 1	"	"	"	8.6 / 7.6	*112.7 → 121.4		~~90.1~~	—		89.9 ML		

NOTES: (1) FIELD MOISTURE CONTENT = GAUGE READING/CORRECTED MOISTURE

* wet unit weight & dry unit weight are switched

COMMENTS:

CHECKED BY: ML

Geosyntec consultants

DENISONMINES

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A DATE: 9 day 17 month 2007 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 8 (in.)

MINIMUM COMPACTION: (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 7.4 to + 13.4 of OPT.

NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 18744 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT[1] (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
15	D4	8" / 1	K265	10.4	125.4	~~9.7~~ 8.3	126.3	116.6	93.0	/				
16	A4	" / 1	"	"	125.4	~~8.8~~ 7.4	127.5	118.8	94.8	/				
17	A3	" / 1	"	"	125.4	~~9.5~~ 8.3	124.5	114.9	91.7	-				
18	A2	" / 1	"	"	"	~~8.8~~ 7.7	122.9	114.1	91.0	-				
19	A1	" / 2	"	"	"	~~11.4~~ 9.9	126.5	115.1	91.8	-				
	20SEP07													
20	B4	8 / 2	K265	10.4	125.4	9.8	126.6	115.3	91.9	P				
21	B3	8 / 2	↓	↓	↓	10.0	127.3	115.7	92.2	P				
22	B2	8 / 2	↓	↓	↓	10.1	128.1	116.3	92.7	P				
23	B2	8 / 2	↓	↓	↓	9.9	127.8	116.3	92.7	P				
		/												
		/												
		/												
		/												

NOTES: (1) FIELD MOISTURE CONTENT = GAUGE READING/CORRECTED MOISTURE

COMMENTS:

CHECKED BY: ML

APPENDIX C-3

PARTICLE SIZE ANALYSIS TEST RESULTS

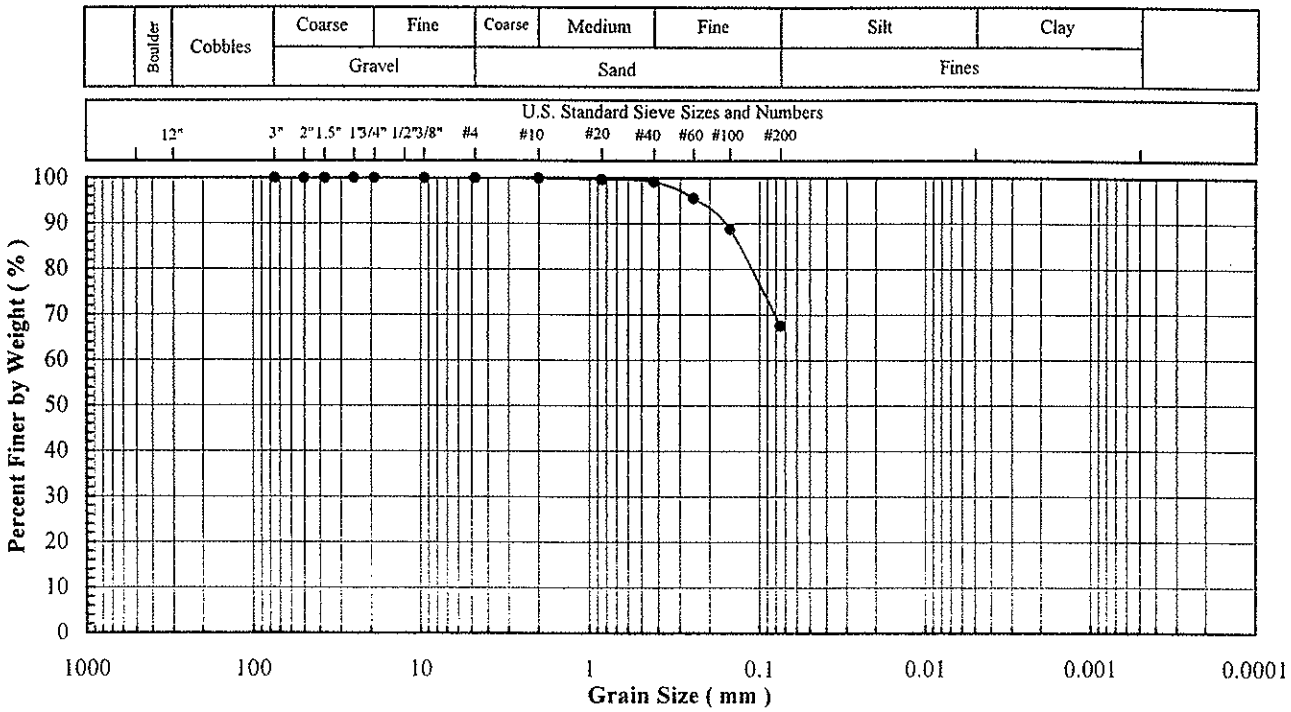
Excel Geotechnical Testing
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name: IUC White Mesa Mill
Project No: 165
Site Sample ID: C1S1-C
Lab Sample No: K236

ASTM D 2216, D 1140, D 422, D 854, C136

SOIL INDEX PROPERTIES

Moisture Content, Grain Size, Atterberg Limits, Classification



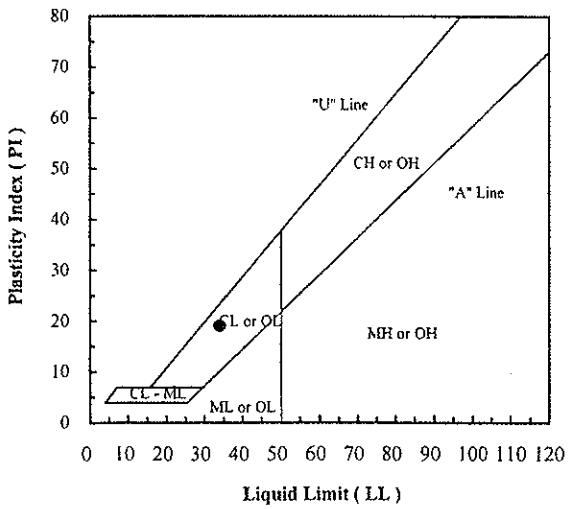
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.9
#20	0.850	99.7
#40	0.425	99.2
#60	0.250	95.6
#100	0.150	88.8
#200	0.075	67.6

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	32.4
Fines (%):	67.6
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
C1S1-C	K236	9.6	67.6	34	15	19	CL - Sandy lean clay

Note(s):

Excel Geotechnical Testing

"Excellence in Testing"

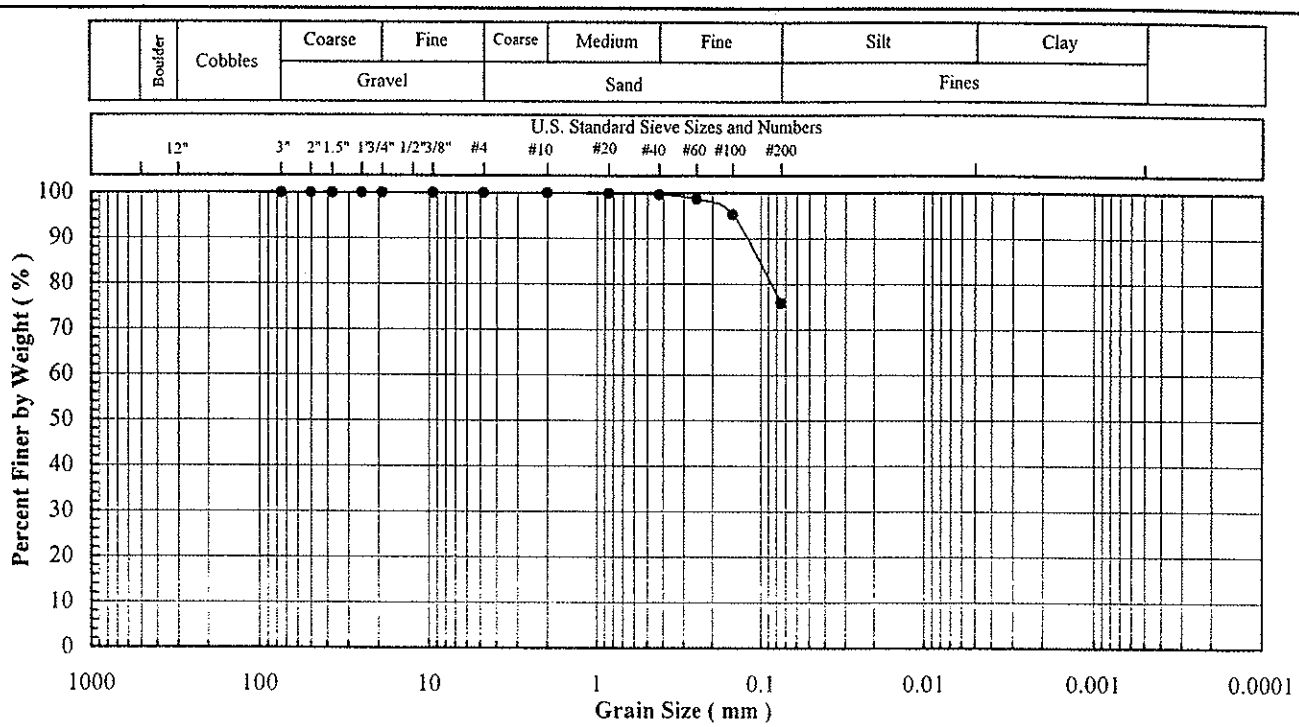
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name: IUC White Mesa Mill
Project No: 165
Site Sample ID: C1S1-E
Lab Sample No: K237

ASTM D 2216, D 1140, D 422, D 854, C136

SOIL INDEX PROPERTIES

Moisture Content, Grain Size, Atterberg Limits, Classification



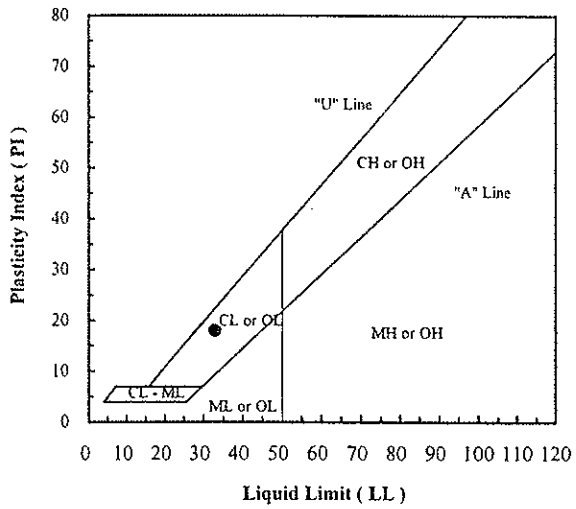
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	99.7
#60	0.250	98.7
#100	0.150	95.3
#200	0.075	75.9

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	24.1
Fines (%):	75.9
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
C1S1-E	K237	10.3	75.9	33	15	18	CL - Lean clay with sand

Note(s):

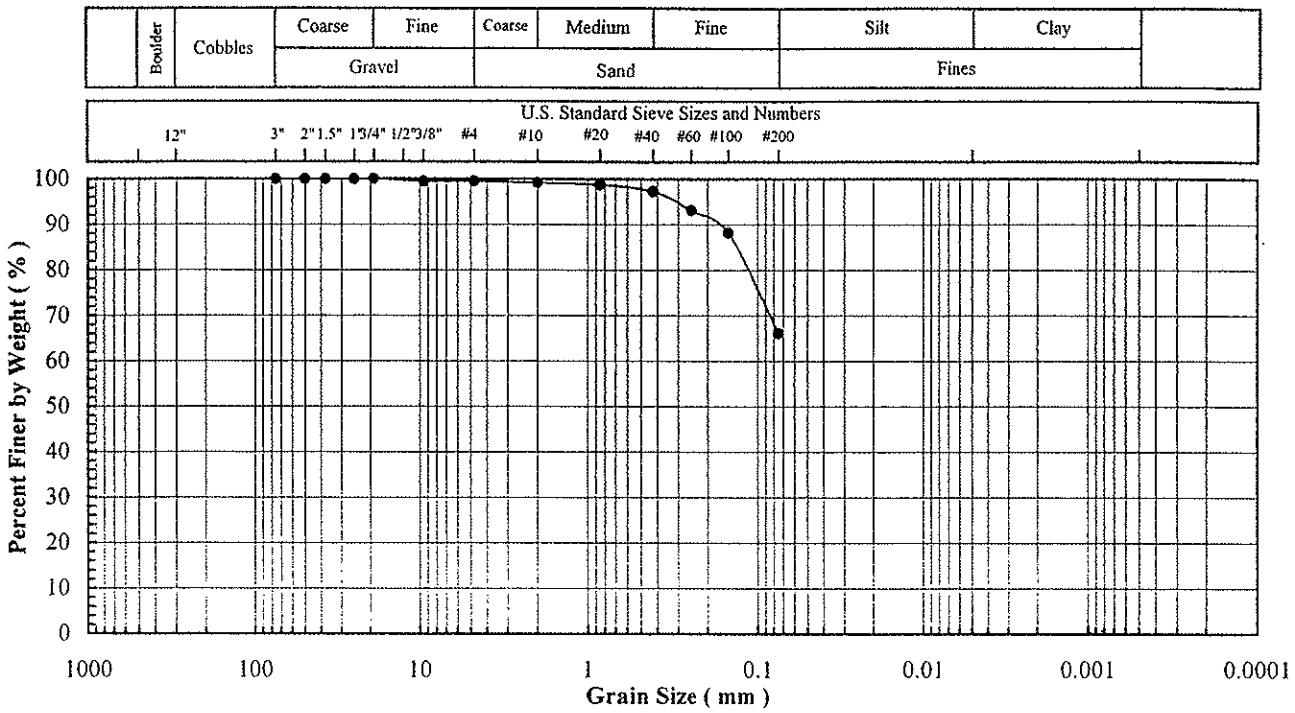
Excel Geotechnical Testing
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name: IUC White Mesa Mill
Project No: 165
Site Sample ID: C1S1-G
Lab Sample No: K238

ASTM D 2216, D 1140, D 422, D 854, C136

SOIL INDEX PROPERTIES

Moisture Content, Grain Size, Atterberg Limits, Classification



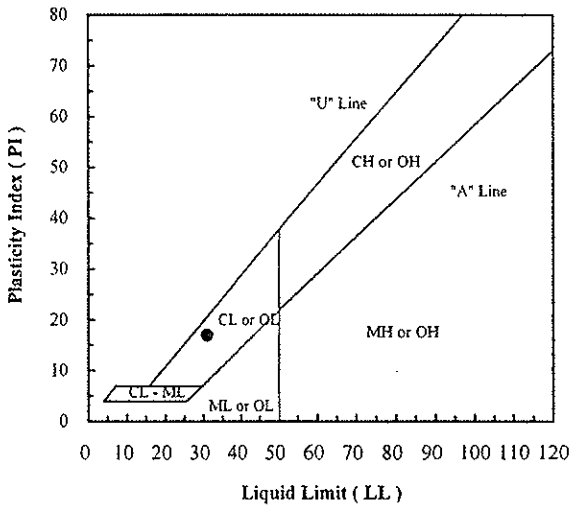
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	99.5
#4	4.75	99.5
#10	2.00	99.2
#20	0.850	98.8
#40	0.425	97.4
#60	0.250	93.2
#100	0.150	88.2
#200	0.075	66.2

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	0.5
Sand (%):	33.3
Fines (%):	66.2
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
C1S1-G	K238	8.0	66.2	31	14	17	CL - Sandy lean clay

Note(s):

APPENDIX D

ANCHOR TRENCH BACKFILL

APPENDIX D-1

FIELD NUCLEAR DENSITY/MOISTURE TEST RESULTS

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT: White Mesa Mill

LOCATION: Cell 4-A PROJECT NO.: SC 0349 TASK NO.: 02

DESCRIPTION: _____ DATE: _____ day 5,6 month 09 year

SPECIFICATION REQUIREMENTS: ASTM D 698 / ASTM D 1557 90 % COMPACTION / MOISTURE RANGE: 7.3 LIFT THICKNESS (LOOSE / COMPACTED): 8"

MATERIAL SOURCE: Anchor trench MATERIAL TYPE: (FILL) / SUBGRADE / SUBBASE / CLAY / OTHER: _____
(CIRCLE ONE)

NUCLEAR GAUGE TYPE: Troxler GAUGE SERIAL NO. _____ CORRECTION FACTOR Y = _____ QA ID: _____

TEST NO.	TEST LOCATION	PROBE DEPTH/ LIFT NO.	LAB RESULTS: SAMPLE NO.	LAB RESULTS: OMC (%)	LAB RESULTS: MAX DRY UNIT WT (PCF)	FIELD TEST RESULTS: FMC (1) (%)	FIELD TEST RESULTS: WET UNIT WT (PCF)	FIELD TEST RESULTS: DRY UNIT WT (PCF)	FIELD TEST RESULTS: PERCENT COMPACT (%)	FIELD TEST RESULTS: PASS	FIELD TEST RESULTS: FAIL	RETEST NO.	RETEST PASS	RETEST FAIL	
1	Anchor Trench - NW	8" / 2	1	19.4	125.4	8.3		113.6	90.6	✓					5/28/08
2	Anchor Trench - NE	8" / 2	2	"	"	9.0		115.6	92.2	✓					5/28/08
3	Anchor Trench - W-N	8" / 2	3	"	"	9.5		115.8	92.3	✓					6/28/08
4	Anchor Trench - W-S	8" / 2	4	"	"	9.7		114.1	90.9	✓					6/28/08
5	Anchor Trench S-W	8" / 2	5	"	"	11.2		116.4	92.8	✓					6/28/08
6	Anchor Trench S-E	8" / 2	6	"	"	7.8		114.4	91.2	✓					6/28/08
7	Anchor Trench E-S	8" / 2	7	"	"	8.9		114.1	90.9	✓					6/28/08
8	Anchor Trench E-N	8" / 2	8	"	"	8.1		119.5	95.6	✓					6/28/08
		/													
		/													

COMMENTS: (1) FIELD MOISTURE CONTENT (FMC) = GAUGE READING/CORRECTED MOISTURE (Y) _____

APPENDIX E

DRAINAGE AGGREGATE, SAND BAG SAND

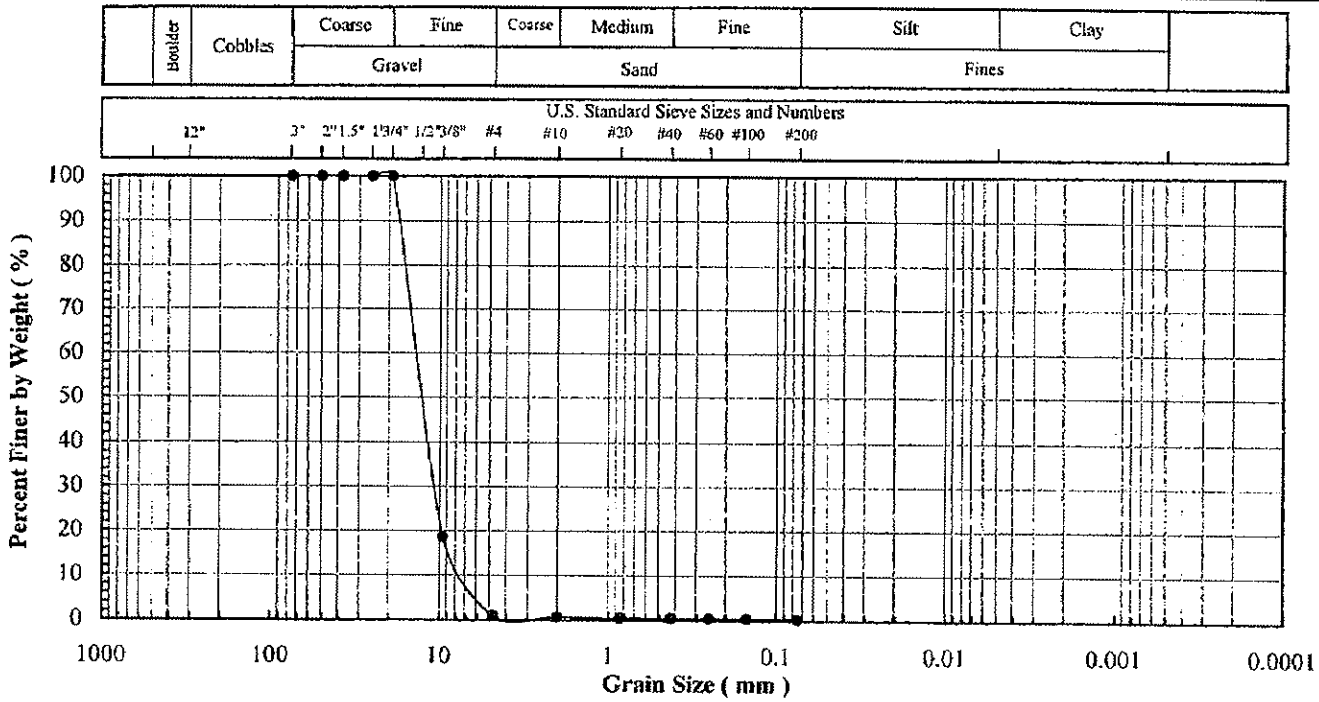
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name:	White Mesa Mill - Cell 4 A
Project No:	246
Client Sample ID:	DA-01
Lab Sample No:	C030

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



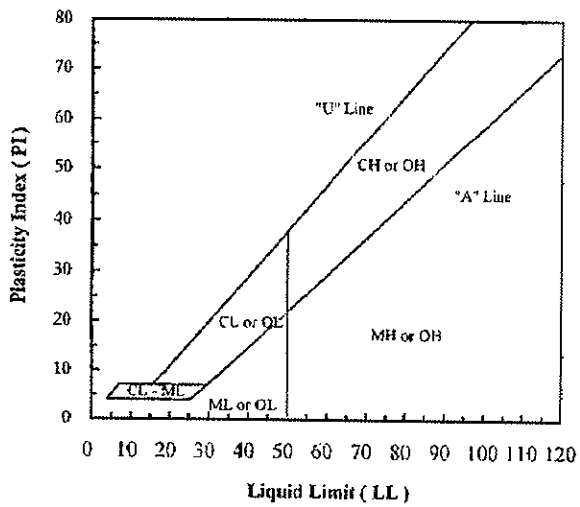
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	18.6
#4	4.75	0.9
#10	2.00	0.7
#20	0.850	0.6
#40	0.425	0.5
#60	0.250	0.5
#100	0.150	0.4
#200	0.075	0.3

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	99.1
Sand (%):	0.6
Fines (%):	0.3
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
DA-01	C030		0.3				

Note(s):

Excel Geotechnical Testing, Inc.
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

RIGID WALL PERMEABILITY TEST[1]

ASTM D2434 *

Project Name:	White Messa Mill - Cell 4A
Project Number:	246
Client Name:	Geosyntec Consultants
Site Sample ID:	DA-01
Lab Sample Number:	C030
Material Type:	NA
Specified Value (cm/sec):	NA
Date Tested:	8/26/06

Specimen Number	Specimen Initial Conditions					Permeant Liquid [4]	Gradient Range	Hydraulic Conductivity
	Spec. Prep. [2] (-)	Spec. Length (cm)	Spec. Diameter (cm)	Dry Unit Weight (pcf)	Moisture Content[3] (%)		(-)	(cm/s)
1	R	30.2	23.0	98.6	0.0	TW	0.002 - 0.01	2.7E+1

Notes:

1. Constant head test procedures were followed during the testing.
2. Remolded specimen was formed by tamping the soil in 5 layers, each approximately 6.0 cm, utilizing moderate compaction energy.
3. A moisture content of 0.0% indicates that the sample was air/oven dried before being tested.
4. Type of permeant liquid: TW = Tap Water, DTW = Deaired Tap Water, DDI = Deaired Deionized Water

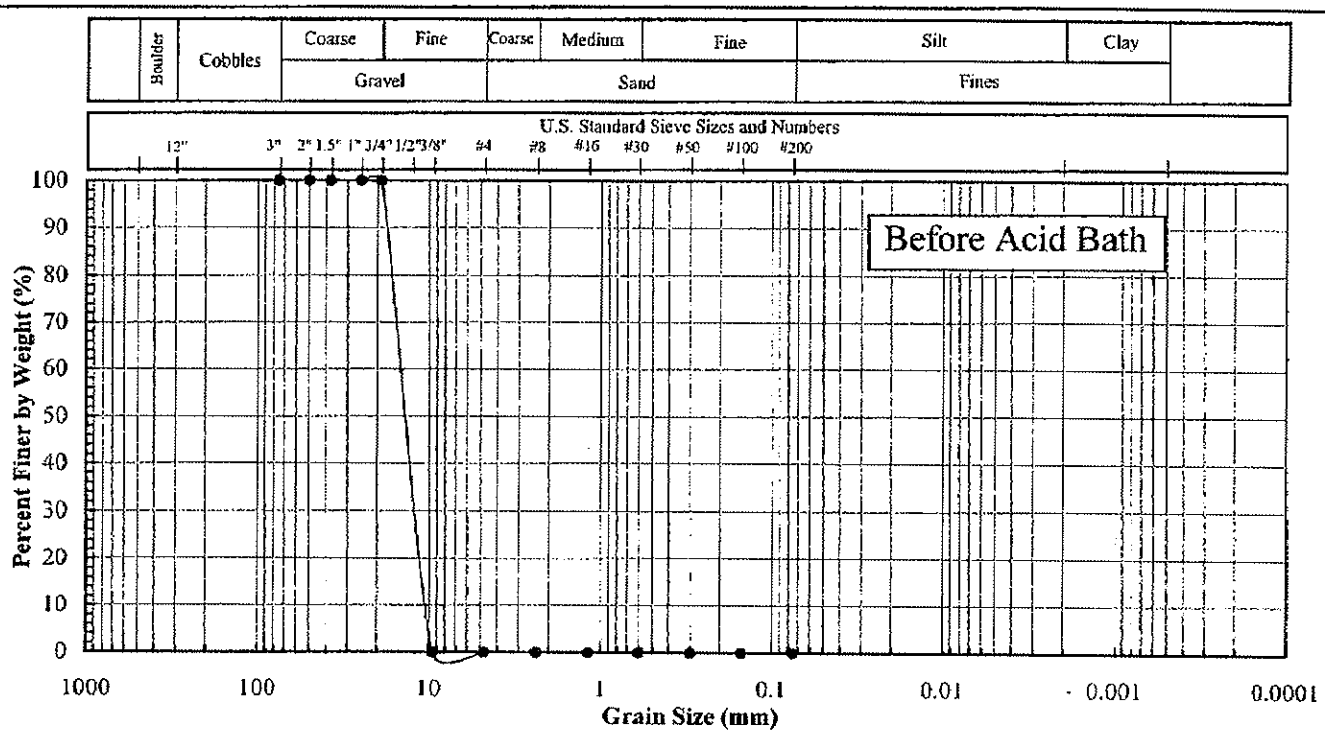
* Deviations:
Laboratory temperature at 22±3 °C.
Test specimen final conditions are not presented.

Excel Geotechnical Testing, Inc.
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name:	White Messa Mill - Cell 4A
Project No:	246
Client Sample ID	DA-01
Lab Sample No:	C030

ASTM D 3042

INSOLUBLE RESIDUE IN CARBONATE AGGREGATES

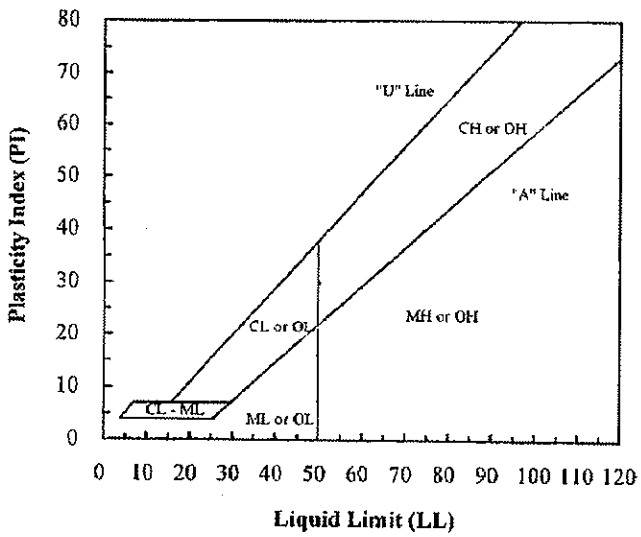


Sieve No.	Size (mm)	% Finer
3"	75.0	100.0
2"	50.0	100.0
1.5"	37.5	100.0
1"	25.0	100.0
3/4"	19.0	100.0
3/8"	9.50	
#4	4.75	
#8	2.00	
#16	0.850	
#30	0.425	
#50	0.250	
#100	0.150	
#200	0.075	

Hydrometer Particle Diameter (mm)	% Finer
0.050	
0.020	
0.005	
0.002	
0.001	

Gravel (%):	100.0
Sand (%):	
Fines (%):	
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	Atterberg Limits PL (-)	Atterberg Limits PI (-)	Engineering Classification
DA-01	C030						

Note(s):

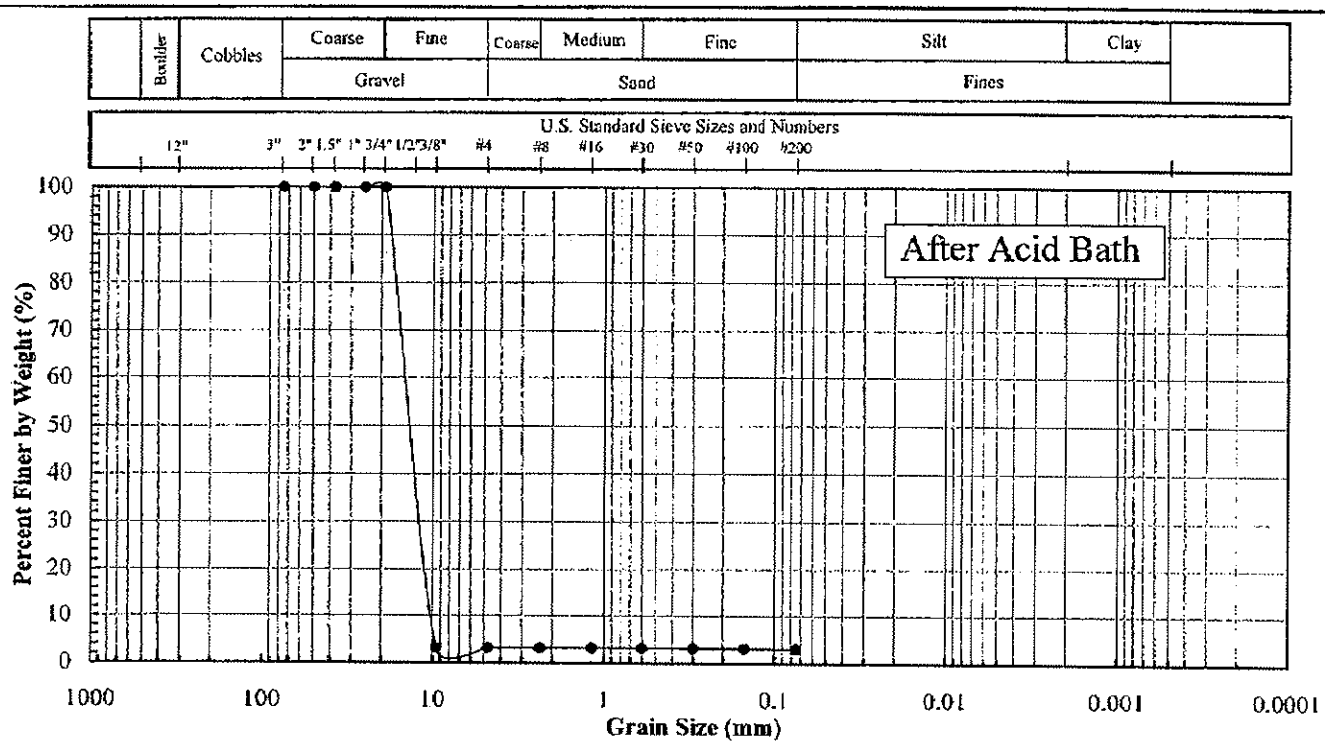
Only particles passed through 3/4 in. Sieve and washed over 3/8 in. Sieve were used.

Excel Geotechnical Testing, Inc.
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name:	White Messa Mill - Cell 4A
Project No:	246
Client Sample ID	DA-01
Lab Sample No:	C030

ASTM D 3042

INSOLUBLE RESIDUE IN CARBONATE AGGREGATES

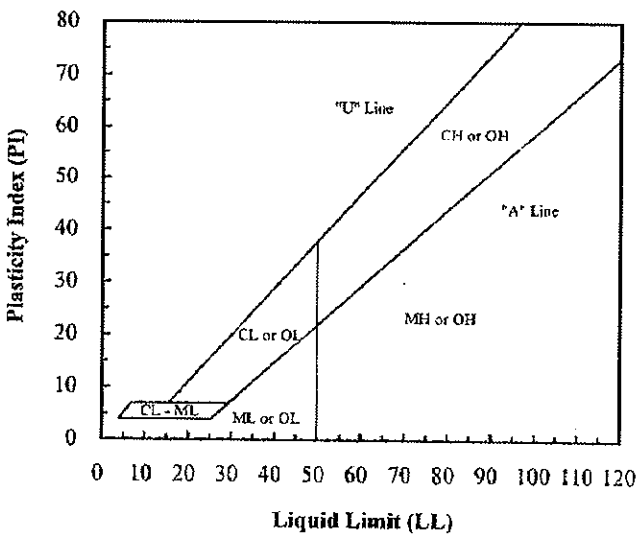


Sieve No.	Size (mm)	% Finer
3"	75.0	100.0
2"	50.0	100.0
1.5"	37.5	100.0
1"	25.0	100.0
3/4"	19.0	100.0
3/8"	9.50	3.2
#4	4.75	3.2
#8	2.00	3.2
#16	0.850	3.2
#30	0.425	3.2
#50	0.250	3.1
#100	0.150	3.1
#200	0.075	3.1

Hydrometer Particle Diameter (mm)	% Finer
0.050	
0.020	
0.005	
0.002	
0.001	

Gravel (%):	96.8
Sand (%):	0.1
Fines (%):	3.1
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content <No. 200 (%)	Atterberg Limits LL (-)	Atterberg Limits PL (-)	Atterberg Limits PI (-)	Total Insoluble Residue (%)
DA-01	C030		3.1				96.9

Note(s):

Only particles passed through 3/4 in. Sieve and washed over 3/8 in. Sieve were used.

Excel Geotechnical Testing, Inc.
"Excellence In Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name:	White Mesa Mill - Cell 4 A
Project No:	246
Client Sample ID:	S-01
Lab Sample No:	G047

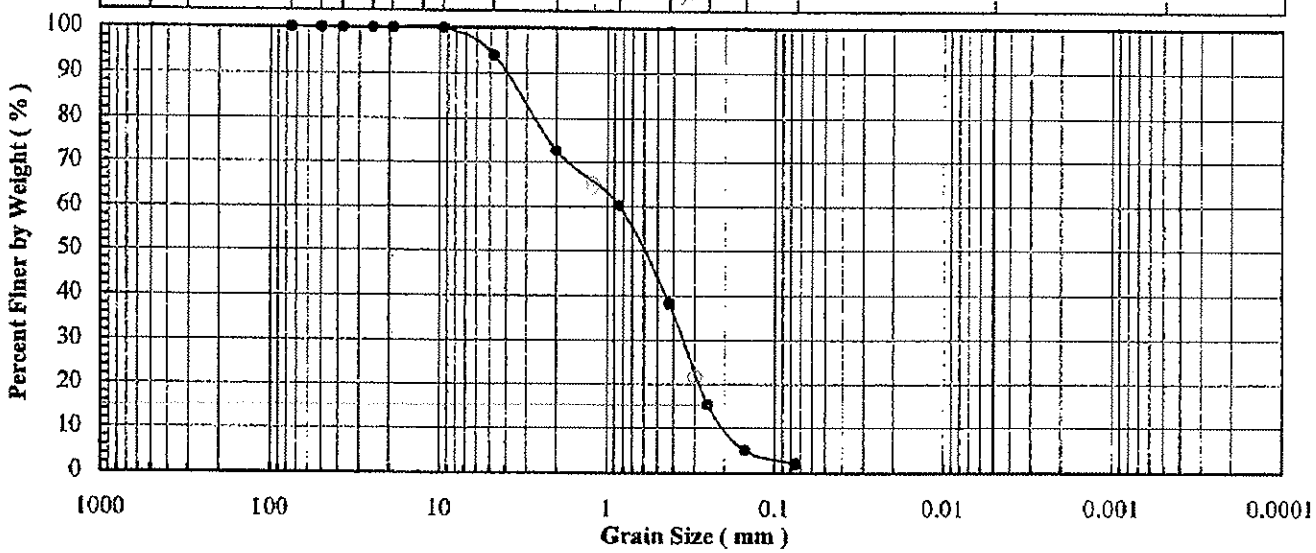
ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits

Boulder	Cobbles	Gravel: Coarse	Gravel: Fine	Sand: Coarse	Sand: Medium	Sand: Fine	Fines: Silt	Fines: Clay

U.S. Standard Sieve Sizes and Numbers: 12" 3" 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #10 #20 #40 #60 #100 #200



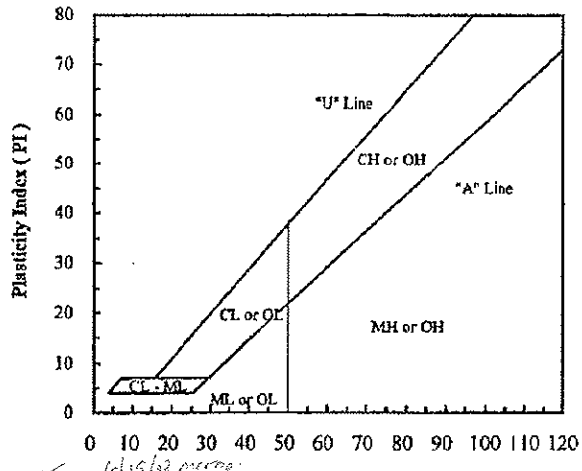
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	94.1
#10	2.00	72.7
#20	0.850	60.4
#40	0.425	38.2
#60	0.250	15.4
#100	0.150	4.9
#200	0.075	1.9

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	5.9
Sand (%):	92.2
Fines (%):	1.9
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	

Specific Gravity (-):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	Atterberg Limits PL (-)	Atterberg Limits PI (-)	Engineering Classification
S-01	G047	2.7	1.9				

Note(s):

SAND BAG SAND

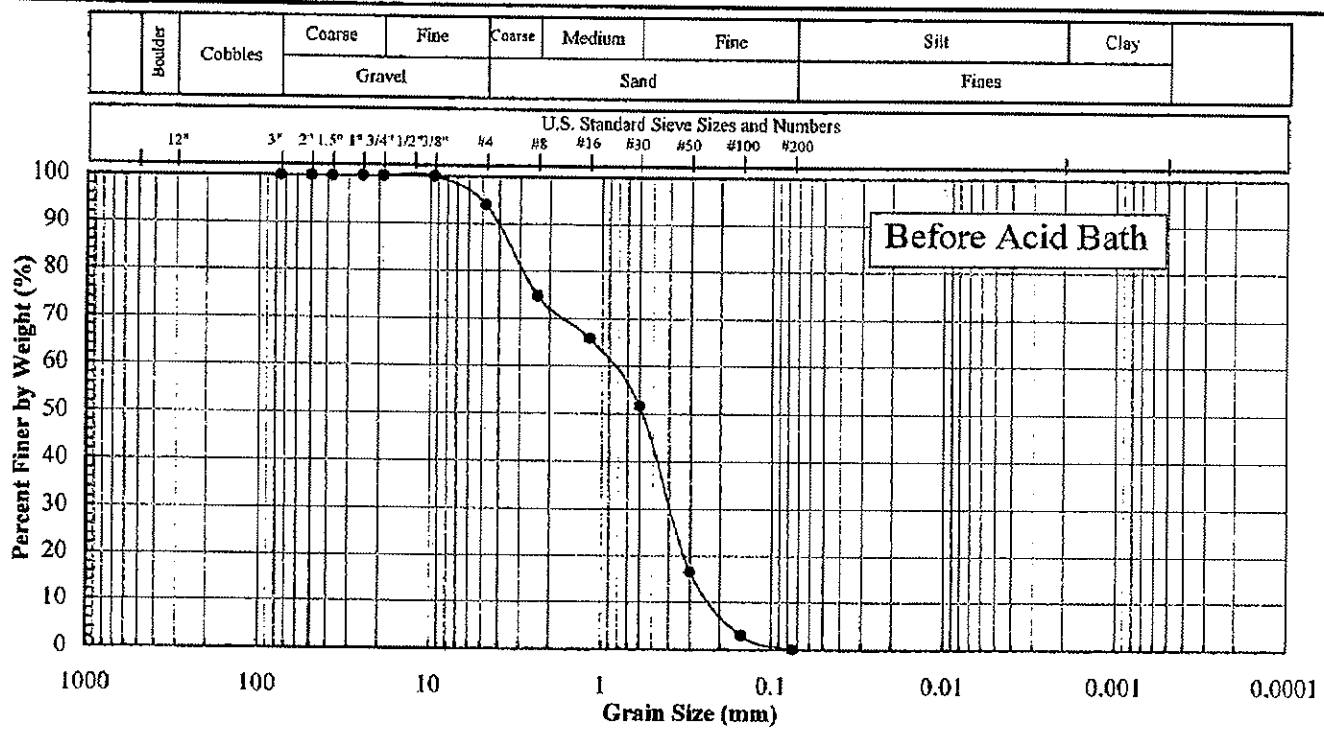
OK - GTC 7/20/07

Excel Geotechnical Testing, Inc.
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name:	White Messa Mill - Cell 4A
Project No:	246
Client Sample ID	S-01
Lab Sample No:	G047

ASTM D 3042

INSOLUBLE RESIDUE IN CARBONATE AGGREGATES

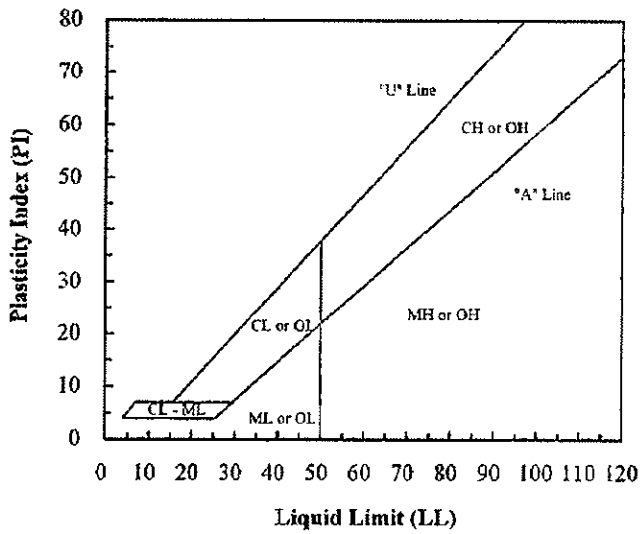


Sieve No.	Size (mm)	% Finer
3"	75.0	100.0
2"	50.0	100.0
1.5"	37.5	100.0
1"	25.0	100.0
3/4"	19.0	100.0
3/8"	9.50	100.0
#4	4.75	94.0
#8	2.00	74.8
#16	0.850	65.8
#30	0.425	51.7
#50	0.250	16.6
#100	0.150	3.0
#200	0.075	0.0

Hydrometer Particle Diameter (mm)	% Finer
0.050	
0.020	
0.005	
0.002	
0.001	

Gravel (%):	6.0
Sand (%):	94.0
Fines (%):	0.0
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
S-01	G047	2.7	0.0				

Note(s):

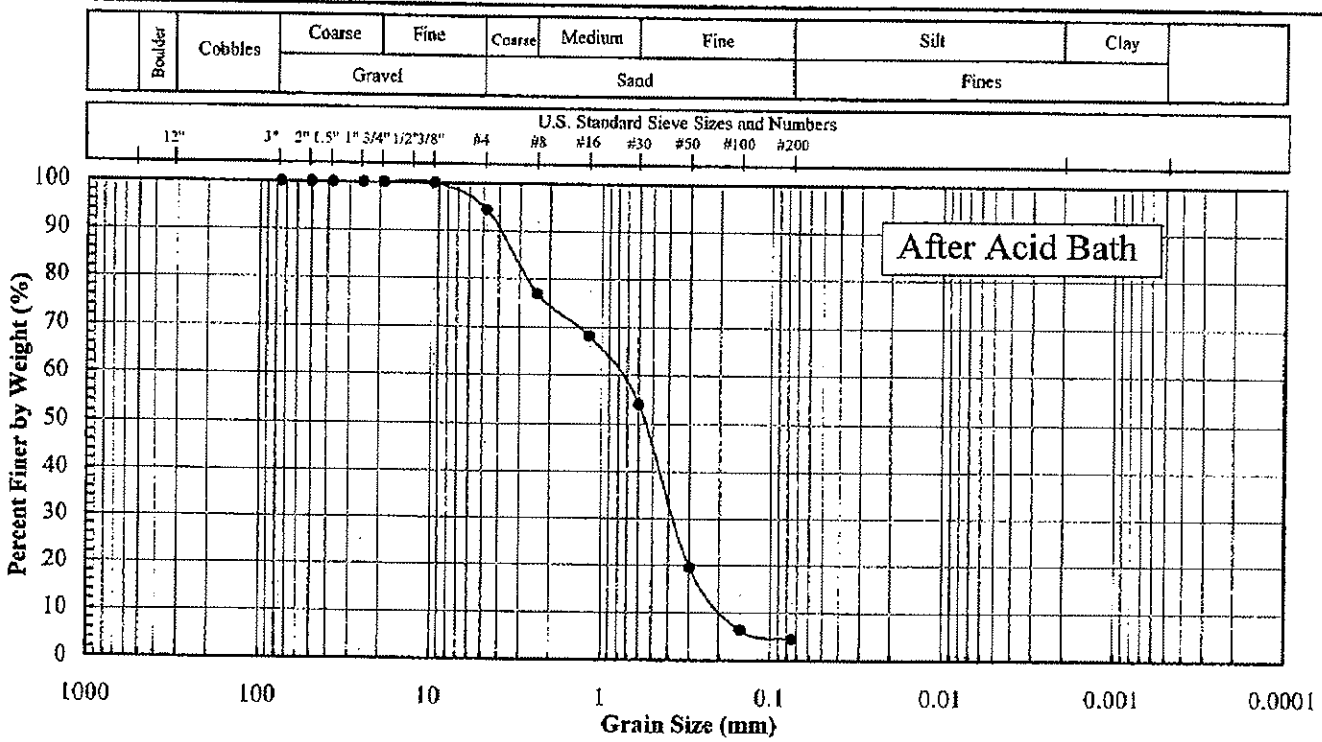
Only particles washed over Sieve No. 200 were used.

Excel Geotechnical Testing, Inc.
"Excellence in Testing"
941 Forrest Street, Roswell, Georgia 30075
Tel: (770) 650 1666 Fax: (770) 650 5786

Project Name:	White Messa Mill - Cell 4A
Project No:	246
Client Sample ID	S-01
Lab Sample No:	G047

ASTM D 3042

INSOLUBLE RESIDUE IN CARBONATE AGGREGATES

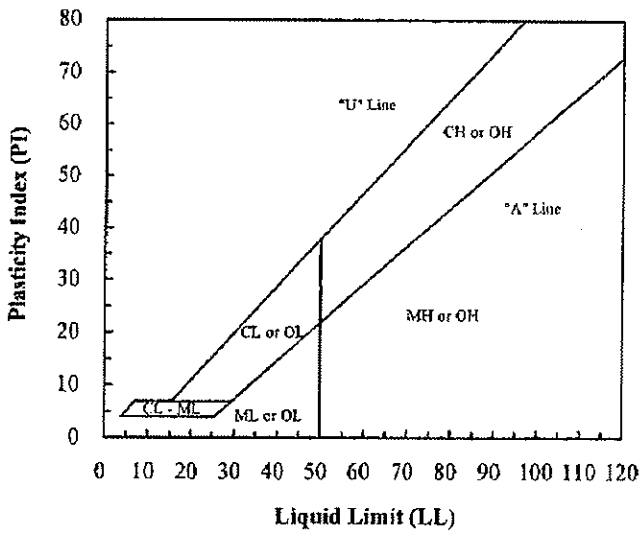


Sieve No.	Size (mm)	% Finer
3"	75.0	100.0
2"	50.0	100.0
1.5"	37.5	100.0
1"	25.0	100.0
3/4"	19.0	100.0
3/8"	9.50	100.0
#4	4.75	94.4
#8	2.00	76.8
#16	0.850	68.1
#30	0.425	54.0
#50	0.250	19.5
#100	0.150	6.2
#200	0.075	4.4

Hydrometer Particle Diameter (mm)	% Finer
0.050	
0.020	
0.005	
0.002	
0.001	

Gravel (%):	5.6
Sand (%):	90.1
Fines (%):	4.4
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	
Coeff. Curv. (Cc):	



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	Atterberg Limits PL (-)	Atterberg Limits PI (-)	**Total Insoluble Residue** (%)
S-01	G047	2.7	4.4				95.7

Note(s):

Only particles washed over Sieve No. 200 were used.

APPENDIX F

GEOMEMBRANE

APPENDIX F-1

MATERIAL INVENTORY LOGS

Appendix F-1
HDPE Geomembrane Log
White Mesa Mill, Cell 4A
Blanding, UT

				Manufacturer Quality Control Testing										CQA Conformance Testing								Acceptance	
Roll No.	Resin Batch No.	Area (SF)	Mfg. Date	Avg. Thick. 60 mil 1/roll	Min. Thick. 54 mil 1/roll	Density >0.94 g/cc 1/100,000	Elongation @ Break 700% 1/100,000	Break Strength 228 ppi 1/100,000	Yield Elongation 12%	Yield Strength 126	Puncture Resistance 108 lb. 1/100,000	Carbon Content 2 - 3 % 1/100,000	Carbon Disp. CAT 1-2 1/100,000	Average Thick. 60 mil 1/200,000	Min. Thick. 54 mil 1/200,000	Density >0.94 g/cc 1/200,000	Elongation @ Break 700% 1/200,000	Break Strength 228 ppi 1/200,000	Yield Elongation 12%	Yield Strength 126	Carbon Content 2 - 3 % 1/200,000	Carbon Disp. CAT 1-2 1/200,000	MQA	CQA
105129441	8260613	12,600	6/16/06	62	60	0.945	786	299	15	149	147	2.25	10	63	61	0.955	777	287	21	150	2.48	8	yes	yes
105129442	8260613	12,600	6/16/06	62	60	0.945	840	310	19	144	151	2.39	10										yes	yes
105129443	8260613	12,600	6/16/06	62	59	0.945	840	310	19	144	151	2.39	10										yes	yes
105129444	8260613	12,600	6/16/06	62	60	0.945	8.4	310	19	144	151	2.39	10										yes	yes
105129445	8260613	12,600	6/16/06	61	59	0.945	780	292	18	152	148	2.3	10										yes	yes
105129446	8260613	12,600	6/16/06	61	59	0.945	780	292	18	152	148	2.3	10										yes	yes
105129447	8260613	12,600	6/16/06	61	59	0.945	780	292	18	152	148	2.3	10										yes	yes
105129448	8260613	12,600	6/16/06	61	59	0.945	851	307	15	146	149	2.41	10										yes	yes
105129449	8260613	12,600	6/16/06	61	58	0.945	851	307	15	146	149	2.41	10										yes	yes
105129450	8260613	12,600	6/16/06	61	58	0.945	851	307	15	146	149	2.41	10										yes	yes
105129451	8260613	12,600	6/16/06	61	59	0.945	803	300	17	148	150	2.48	10										yes	yes
105129452	8260613	12,600	6/16/06	61	58	0.945	803	300	17	148	150	2.48	10										yes	yes
105129453	8260613	12,600	6/16/06	60	59	0.945	803	300	17	148	150	2.48	10										yes	yes
105129454	8260613	12,600	6/17/06	61	59	0.945	824	292	18	145	144	2.48	10										yes	yes
105129455	8260613	12,600	6/17/06	61	59	0.945	824	292	18	145	144	2.48	10										yes	yes
105129458	8260742	12,600	6/17/06	61	58	0.945	836	313	19	147	152	2.47	10	60	59	0.955	857	314	21	151	2.61	10	yes	yes
105129459	8260742	12,600	6/17/06	61	59	0.945	844	320	19	146	153	2.45	10										yes	yes
105129460	8260742	12,600	6/17/06	61	60	0.945	844	320	19	146	153	2.45	10										yes	yes
105129461	8260742	12,600	6/17/06	61	58	0.945	844	320	19	146	153	2.45	10										yes	yes
105129462	8260742	12,600	6/17/06	61	59	0.945	786	288	18	146	144	2.42	10										yes	yes
105129463	8260742	12,600	6/17/06	61	59	0.945	786	288	18	146	144	2.42	10										yes	yes
105129464	8260742	12,600	6/17/06	61	58	0.945	786	288	18	146	144	2.42	10										yes	yes
105129465	8260742	12,600	6/17/06	61	58	0.945	859	317	19	143	150	2.42	10										yes	yes
105129466	8260742	12,600	6/18/06	61	59	0.945	859	317	19	143	150	2.42	10										yes	yes
105129467	8260742	12,600	6/18/06	61	58	0.945	859	317	19	143	150	2.42	10										yes	yes
105129468	8260742	12,600	6/18/06	61	59	0.945	853	301	15	135	145	2.48	10										yes	yes
105129470	8260742	12,600	6/18/06	61	59	0.945	853	301	15	135	145	2.48	10										yes	yes
105129471	8260742	12,600	6/18/06	61	59	0.944	843	302	20	136	143	2.43	10										yes	yes
105129472	8260742	12,600	6/18/06	60	58	0.944	843	302	20	136	143	2.43	10										yes	yes
105129473	8260742	12,600	6/18/06	61	59	0.944	843	302	20	136	143	2.43	10										yes	yes
105129474	8260742	12,600	6/18/06	61	59	0.944	816	301	20	142	150	2.45	10										yes	yes
105129475	8260742	12,600	6/18/06	61	59	0.944	816	301	20	142	150	2.45	10										yes	yes
105129476	8260742	12,600	6/18/06	60	58	0.944	816	301	20	142	150	2.45	10										yes	yes
105129478	8260742	12,600	6/18/06	60	57	0.946	822	296	18	156	150	2.58	10										yes	yes
105130216	195425	12,600	8/12/06	62	60	0.946	811	285	18	150	145	2.33	10										yes	yes
105130217	195425	12,600	8/13/06	61	59	0.946	822	281	19	146	143	2.44	10										yes	yes
105130218	195425	12,600	8/13/06	61	59	0.946	822	281	19	146	143	2.44	10										yes	yes
105130219	195425	12,600	8/13/06	60	57	0.946	822	281	19	146	143	2.44	10										yes	yes
105130220	195425	12,600	8/13/06	61	58	0.946	924	323	19	138	143	2.34	10										yes	yes
105130221	195425	12,600	8/13/06	61	58	0.946	924	323	19	138	143	2.34	10										yes	yes
105130222	195412	12,600	8/13/06	61	59	0.946	924	323	19	138	143	2.34	10	62	59	0.955	828	287	19	147	2.4	10	yes	yes
105130223	195412	12,600	8/13/06	61	59	0.946	879	309	20	138	139	2.33	10										yes	yes
105130224	195412	12,600	8/13/06	61	59	0.946	879	309	20	138	139	2.33	10										yes	yes
105130225	195412	12,600	8/13/06	61	59	0.946	879	309	20	138	139	2.33	10										yes	yes
105130227	195412	12,600	8/13/06	60	5	0.946	860	300	19	139	140	2.36	10										yes	yes
105130228	195412	12,600	8/13/06	61	60	0.946	860	300	19	139	140	2.36	10										yes	yes
105130229	195412	12,600	8/13/06	60	57	0.946	860	300	19	139	140	2.36	10										yes	yes
105130230	195412	12,600	8/14/06	61	59	0.946	847	293	19	137	132	2.29	10										yes	yes
105130231	195412	12,600	8/14/06	60	58	0.946	847	293	19	137	132	2.29	10										yes	yes
105130232	195412	12,600	8/14/06	60	58	0.946	847	293	19	137	132	2.29	10										yes	yes
105130233	195412	12,600	8/14/06	61	59	0.945	876	306	19	139	139	2.33	10										yes	yes
105130234	195412	12,600	8/14/06	61	59	0.945	876	306	19	139	139	2.33	10										yes	yes
105130235	195412	12,600	8/14/06	60	58	0.945	876	306	19	139	139	2.33	10										yes	yes
105130236	195412	12,600	8/14/06	61	58	0.945	854	295	18	142	138	2.33	10										yes	yes
105130237	195412	12,600	8/14/06	61	59	0.945	854	295	18	142	138	2.33	10										yes	yes
105130238	195412	12,600	8/14/06	61	58	0.945	854	295	18	142	138	2.33	10	62	59	0.952	807	282	21	153	2.3	10	yes	yes
105130239	195426	12,600	8/14/06	61	59	0.945	838	293	19	133	136	2.38	10										yes	yes
105130240	195426	12,600	8/14/06	61	58	0.945	838	293	19	133	136	2.38	10										yes	yes

Appendix F-1
HDPE Geomembrane Log
White Mesa Mill, Cell 4A
Blanding, UT

				Manufacturer Quality Control Testing										CQA Conformance Testing									Acceptance	
Roll No.	Resin Batch No.	Area (SF)	Mfg. Date	Avg. Thick. 60 mil 1/roll	Min. Thick. 54 mil 1/roll	Density >0.94 g/cc 1/100,000	Elongation @ Break 700% 1/100,000	Break Strength 228 ppi 1/100,000	Yield Elongation 12%	Yield Strength 126	Puncture Resistance 108 lb. 1/100,000	Carbon Content 2 - 3 % 1/100,000	Carbon Disp. CAT 1-2 1/100,000	Average Thick. 60 mil 1/200,000	Min. Thick. 54 mil 1/200,000	Density >0.94 g/cc 1/200,000	Elongation @ Break 700% 1/200,000	Break Strength 228 ppi 1/200,000	Yield Elongation 12%	Yield Strength 126	Carbon Content 2 - 3 % 1/200,000	Carbon Disp. CAT 1-2 1/200,000	MQA	CQA
105130241	195426	12,600	8/14/06	61	58	0.945	838	293	19	133	136	2.38	10										yes	yes
105130242	195426	12,600	8/15/06	61	58	0.945	790	282	19	137	144	2.36	10										yes	yes
105130243	195426	12,600	8/15/06	62	58	0.945	790	282	19	137	144	2.36	10										yes	yes
105130244	195426	12,600	8/15/06	61	59	0.945	790	282	19	137	144	2.36	10										yes	yes
105130245	195426	12,600	8/15/06	62	58	0.943	852	294	18	138	142	2.16	10										yes	yes
105130246	195426	12,600	8/15/06	61	59	0.943	852	294	18	138	142	2.16	10										yes	yes
105130247	195426	12,600	8/15/06	61	57	0.943	852	294	18	138	142	2.16	10										yes	yes
105130248	195426	12,600	8/15/06	61	57	0.945	867	297	20	134	133	2.35	10										yes	yes
105130249	195426	12,600	8/15/06	60	57	0.945	867	297	20	134	133	2.35	10										yes	yes
105130250	195426	12,600	8/15/06	61	58	0.945	867	297	20	134	133	2.35	10										yes	yes
105130251	195426	12,600	8/15/06	60	57	0.945	837	297	22	127	140	2.37	10										yes	yes
105130252	195426	12,600	8/15/06	60	59	0.945	837	297	22	127	140	2.37	10										yes	yes
105130253	195426	12,600	8/15/06	61	59	0.945	837	297	22	127	140	2.37	10	60	59	0.953	866	298	20	140	2.35	9	yes	yes
105130254	195426	12,600	8/15/06	62	58	0.945	854	302	15	132	143	2.29	10										yes	yes
105130255	195426	12,600	8/16/06	62	59	0.945	854	302	15	132	143	2.29	10										yes	yes
105130256	195426	12,600	8/16/06	61	58	0.945	854	302	15	132	143	2.29	10										yes	yes
105130257	195426	12,600	8/16/06	61	58	0.944	883	310	20	137	142	2.28	10										yes	yes
105130260	195426	12,600	8/16/06	61	58	0.944	883	310	20	137	142	2.28	10										yes	yes
105130261	195427	12,600	8/16/06	60	56	0.944	834	286	21	136	139	2.37	10										yes	yes
105130262	195427	12,600	8/16/06	60	58	0.944	834	286	21	136	139	2.37	10										yes	yes
105130263	195427	12,600	8/16/06	61	57	0.944	834	286	21	136	139	2.37	10										yes	yes
105130264	195427	12,600	8/16/06	60	58	0.944	861	298	20	136	137	2.3	10										yes	yes
105130265	195427	12,600	8/16/06	62	59	0.944	861	298	20	136	137	2.3	10										yes	yes
105130266	195427	12,600	8/16/06	62	58	0.944	861	298	20	136	137	2.3	10										yes	yes
105130267	195427	12,600	8/16/06	62	59	0.944	858	305	19	146	142	2.42	10										yes	yes
105130268	195427	12,600	8/17/06	62	59	0.944	858	305	19	146	142	2.42	10										yes	yes
105130269	195427	12,600	8/17/06	62	58	0.944	858	305	19	146	142	2.42	10										yes	yes
105130270	195427	12,600	8/17/06	61	57	0.945	824	290	19	142	144	2.34	10	61	59	0.953	838%	286	20	147	2.36	10	yes	yes
105130271	195427	12,600	8/17/06	61	59	0.945	824	290	19	142	144	2.34	10										yes	yes
105130272	195427	12,600	8/17/06	61	58	0.945	824	290	19	142	144	2.34	10										yes	yes
105130273	195427	12,600	8/17/06	61	59	0.945	813	277	20	134	131	2.43	10										yes	yes
105130274	195427	12,600	8/17/06	61	59	0.945	813	277	20	134	131	2.43	10										yes	yes
105130275	195427	12,600	8/17/06	61	59	0.945	813	277	20	134	131	2.43	10										yes	yes
105130277	195427	12,600	8/17/06	61	59	0.945	857	300	21	131	138	2.38	10										yes	yes
105130278	195427	12,600	8/17/06	61	59	0.945	857	300	21	131	138	2.38	10										yes	yes
105130279	195427	12,600	8/17/06	62	60	0.945	857	300	21	131	138	2.38	10										yes	yes
105130280	195427	12,600	8/17/06	61	60	0.945	853	296	19	136	139	2.32	10										yes	yes
105130281	195430	12,600	8/18/06	61	59	0.945	853	296	19	136	139	2.32	10										yes	yes
105130282	195430	12,600	8/18/06	60	57	0.945	853	296	19	136	139	2.32	10										yes	yes
105130283	195430	12,600	8/18/06	60	58	0.945	873	302	19	138	134	2.31	10										yes	yes
105130284	195430	12,600	8/18/06	60	58	0.945	873	302	19	138	134	2.31	10										yes	yes
105130285	195430	12,600	8/18/06	61	59	0.945	873	302	19	138	134	2.31	10										yes	yes
105130286	195430	12,600	8/18/06	61	59	0.945	877	303	20	131	137	2.33	10	61	59	0.952	834%	296	21	148	2.44	9	yes	yes
105130287	195430	12,600	8/18/06	60	58	0.945	877	303	20	131	137	2.33	10										yes	yes
105130288	195430	12,600	8/18/06	60	58	0.945	877	303	20	131	137	2.33	10										yes	yes
105130289	195430	12,600	8/18/06	60	59	0.945	864	293	22	129	137	2.27	10										yes	yes
105130290	195430	12,600	8/18/06	61	59	0.945	864	293	22	129	137	2.27	10										yes	yes
105130291	195430	12,600	8/18/06	60	58	0.945	864	293	22	129	137	2.27	10										yes	yes
105130292	195430	12,600	8/18/06	60	59	0.945	844	298	19	143	142	2.4	10										yes	yes
105130293	195430	12,600	8/18/06	60	59	0.945	844	298	19	143	142	2.4	10										yes	yes
105130294	195430	12,600	8/19/06	60	59	0.945	844	298	19	143	142	2.4	10										yes	yes
105130295	195430	12,600	8/19/06	60	59	0.948	812	283	18	145	148	2.41	10										yes	yes
105130296	195430	12,600	8/19/06	60	58	0.948	812	283	18	145	148	2.41	10										yes	yes
105130297	195430	12,600	8/19/06	61	56	0.948	812	283	18	145	148	2.41	10										yes	yes
105130298	195384	12,600	8/19/06	61	59	0.948	875	310	19	139	144	2.28	10										yes	yes
105130299	195384	12,600	8/19/06	60	57	0.948	875	310	19	139	144	2.28	10										yes	yes
105130300	195384	12,600	8/19/06	60	58	0.948	875	310	19	139	144	2.28	10										yes	yes
105130301	195384	12,600	8/19/06	61	57	0.945	873	309	20	132	138	2.29	10	61	59	0.951	851%	290	20	143	2.36	9	yes	yes

Appendix F-1
HDPE Geomembrane Log
White Mesa Mill, Cell 4A
Blanding, UT

				Manufacturer Quality Control Testing										CQA Conformance Testing									Acceptance	
Roll No.	Resin Batch No.	Area (SF)	Mfg. Date	Avg. Thick. 60 mil 1/roll	Min. Thick. 54 mil 1/roll	Density >0.94 g/cc 1/100,000	Elongation @ Break 700% 1/100,000	Break Strength 228 ppi 1/100,000	Yield Elongation 12%	Yield Strength 126	Puncture Resistance 108 lb. 1/100,000	Carbon Content 2 - 3 % 1/100,000	Carbon Disp. CAT 1-2 1/100,000	Average Thick. 60 mil 1/200,000	Min. Thick. 54 mil 1/200,000	Density >0.94 g/cc 1/200,000	Elongation @ Break 700% 1/200,000	Break Strength 228 ppi 1/200,000	Yield Elongation 12%	Yield Strength 126	Carbon Content 2 - 3 % 1/200,000	Carbon Disp. CAT 1-2 1/200,000	MQA	CQA
105130302	195384	12,600	8/19/06	61	58	0.945	873	309	20	132	138	2.29	10										yes	yes
105130303	195384	12,600	8/19/06	61	60	0.945	873	309	20	132	138	2.29	10										yes	yes
105130304	195384	12,600	8/19/06	61	59	0.945	811	297	19	136	141	2.45	10										yes	yes
105130305	195384	12,600	8/19/06	60	58	0.945	811	297	19	136	141	2.45	10										yes	yes
105130306	195384	12,600	8/20/06	60	57	0.945	811	297	19	136	141	2.45	10										yes	yes
105130307	195384	12,600	8/20/06	60	57	0.945	863	318	18	145	146	2.40	10										yes	yes
105130308	195384	12,600	8/20/06	60	58	0.945	863	318	18	145	146	2.40	10										yes	yes
105130309	195384	12,600	8/20/06	60	58	0.945	863	318	18	145	146	2.40	10										yes	yes
105130310	195384	12,600	8/20/06	60	57	0.945	881	310	18	143	138	2.39	10										yes	yes
105130312	195384	12,600	8/20/06	61	57	0.945	881	310	18	143	138	2.39	10										yes	yes
105130313	195384	12,600	8/20/06	61	57	0.945	821	*283*	20	139	136	2.33	10										yes	yes
105130314	195384	12,600	8/20/06	61	56	0.945	821	283	20	139	136	*2.33*	10										yes	yes
105130315	195384	12,600	8/20/06	60	56	0.945	821	283	20	139	136	*2.33*	10										yes	yes
105130316	195384	12,600	8/20/06	60	58	0.945	877	306	19	*136*	140	2.39	10										yes	yes
105130317	195384	12,600	8/20/06	60	58	0.945	877	306	19	136	140	2.39	10	61	58	0.952	803	277	18	145	2.47	10	yes	yes
105130318	195384	12,600	8/20/06	60	59	0.945	877	306	19	136	140	2.39	10										yes	yes
105130319	195384	12,600	8/21/06	60	59	0.945	837	290	18	139	137	2.35	10										yes	yes
105130320	195384	12,600	8/21/06	60	58	0.945	837	290	18	139	137	2.35	10										yes	yes
105130321	195384	12,600	8/21/06	60	59	0.945	837	290	18	139	137	2.35	10										yes	yes
105130322	195384	12,600	8/21/06	60	59	0.945	886	309	19	142	144	2.43	10										yes	yes
105130507	195823	12,600	9/4/06	62	60	0.945	873	314	18	140	145	2.4	10	61	58	0.956	818	277	20	147	2.5		yes	yes
105130508	195823	12,600	9/4/06	60	58	0.945	873	314	18	140	145	2.4	10										yes	yes
105130510	195823	12,600	9/4/06	61	59	0.946	830	298	20	138	149	2.42	10										yes	yes
105130511	195823	12,600	9/4/06	61	59	0.946	830	298	20	138	149	2.42	10										yes	yes
105130512	195823	12,600	9/4/06	62	59	0.946	863	302	18	138	145	2.46	10										yes	yes
105130513	195823	12,600	9/4/06	62	59	0.946	863	302	18	138	145	2.46	10										yes	yes
105130514	195823	12,600	9/4/06	62	58	0.946	863	302	18	138	145	2.46	10										yes	yes
105130515	195823	12,600	9/4/06	62	58	0.945	849	229	19	140	144	2.52	10										yes	yes
105130516	195823	12,600	9/4/06	61	59	0.945	849	299	19	140	144	2.52	10										yes	yes
105130517	195823	12,600	9/4/06	61	58	0.945	849	299	19	140	144	2.52	10										yes	yes
105130518	195823	12,600	9/4/06	61	58	0.945	871	312	19	141	146	2.43	10										yes	yes
105130519	195823	12,600	9/5/06	61	57	0.945	871	312	19	141	146	2.43	10										yes	yes
105130520	195823	12,600	9/5/06	61	59	0.945	871	312	19	141	146	2.43	10										yes	yes
105130521	195823	12,600	9/5/06	61	58	0.946	850	303	19	136	147	2.57	10										yes	yes
105130522	195823	12,600	9/5/06	61	59	0.946	850	303	19	136	147	2.57	10										yes	yes
105130523	195836	12,600	9/5/06	61	59	0.946	850	303	19	136	147	2.57	10										yes	yes
105130524	195836	12,600	9/5/06	61	59	0.946	856	307	18	139	146	2.44	10										yes	yes
105130525	195836	12,600	9/5/06	60	59	0.946	856	308	18	139	146	2.44	10										yes	yes
105130526	195836	12,600	9/5/06	60	58	0.946	856	308	18	139	146	2.44	10										yes	yes
105130527	195836	12,600	9/5/06	60	59	0.946	860	291	19	134	146	2.52	10										yes	yes
105130528	195836	12,600	9/5/06	60	59	0.946	860	291	19	134	146	2.52	10										yes	yes
105130529	195836	12,600	9/5/06	61	58	0.946	860	291	19	134	146	2.52	10										yes	yes
105130530	195836	12,600	9/5/06	60	57	0.946	883	286	16	138	138	2.53	10										yes	yes
105130531	195836	12,600	9/6/06	61	58	0.946	883	286	16	138	138	2.53	10										yes	yes
105130532	195836	12,600	9/6/06	60	58	0.946	883	286	16	138	138	2.53	10										yes	yes
105130533	195836	12,600	9/6/06	61	58	0.945	776	261	18	144	149	2.63	10										yes	yes
105130534	195836	12,600	9/6/06	61	59	0.945	776	261	18	144	149	2.63	10										yes	yes
105130536	195836	12,600	9/6/06	60	58	0.945	776	261	18	144	149	2.63	10	60	57	0.945	850	287	22	140	2.68		yes	yes
105130537	195831	12,600	9/6/06	60	59	0.945	851	307	18	153	149	2.64	10										yes	yes
105130538	195831	12,600	9/6/06	61	60	0.945	851	307	18	153	149	2.64	10										yes	yes
105130539	195831	12,600	9/6/06	61	58	0.945	851	307	18	153	149	2.64	10										yes	yes
105130540	195831	12,600	9/6/06	60	57	0.945	800	286	15	146	148	2.53	10										yes	yes
105130541	195831	12,600	9/6/06	60	59	0.945	800	286	15	146	148	2.53	10										yes	yes
105130564	195831	12,600	9/8/06	60	58	0.947	875	302	18	144	145	2.55	10										yes	yes
105130565	195831	12,600	9/8/06	60	58	0.945	801	302	18	148	147	2.48	10										yes	yes
105130566	195831	12,600	9/8/06	60	57	0.945	801	302	18	148	147	2.48	10	61	58	0.955	793	278	23	145	2.64	CAT 1	yes	yes
105130567	195831	12,600	9/8/06	62	60	0.945	801	302	18	148	147	2.48	10										yes	yes
105130568	195832	12,600	9/8/06	61	60	0.945	836	305	18	141	143	2.39	10										yes	yes

Appendix F-1
HDPE Geomembrane Log
White Mesa Mill, Cell 4A
Blanding, UT

				Manufacturer Quality Control Testing										CQA Conformance Testing								Acceptance	
Roll No.	Resin Batch No.	Area (SF)	Mfg. Date	Avg. Thick. 60 mil 1/roll	Min. Thick. 54 mil 1/roll	Density >0.94 g/cc 1/100,000	Elongation @ Break 700% 1/100,000	Break Strength 228 ppi 1/100,000	Yield Elongation 12%	Yield Strength 126	Puncture Resistance 108 lb. 1/100,000	Carbon Content 2 - 3 % 1/100,000	Carbon Disp. CAT 1-2 1/100,000	Average Thick. 60 mil 1/200,000	Min. Thick. 54 mil 1/200,000	Density >0.94 g/cc 1/200,000	Elongation @ Break 700% 1/200,000	Break Strength 228 ppi 1/200,000	Yield Elongation 12%	Yield Strength 126	Carbon Content 2 - 3 % 1/200,000	Carbon Disp. CAT 1-2 1/200,000	MQA	CQA
105130569	195832	12,600	9/8/06	62	60	0.945	836	305	18	141	143	2.39	10									yes	yes
105130570	195832	12,600	9/8/06	62	59	0.945	836	305	18	141	143	2.39	10									yes	yes
105130571	195832	12,600	9/8/06	61	57	0.945	836	302	15	146	145	2.53	10									yes	yes
105130572	195832	12,600	9/8/06	61	57	0.945	836	302	15	146	145	2.53	10									yes	yes
105130573	195832	12,600	9/8/06	61	57	0.945	836	302	15	146	145	2.53	10									yes	yes
105130574	195832	12,600	9/9/06	61	58	0.945	880	311	18	132	141	2.54	10									yes	yes
105130575	195832	12,600	9/9/06	60	58	0.945	880	311	18	132	141	2.54	10									yes	yes
105130576	195832	12,600	9/9/06	60	59	0.945	880	311	18	132	141	2.54	10									yes	yes
105130577	195832	12,600	9/9/06	60	58	0.946	882	296	19	131	139	2.57	10									yes	yes
105130578	195832	12,600	9/9/06	60	59	0.946	882	296	19	131	139	2.57	10									yes	yes
105130579	195832	12,600	9/9/06	60	59	0.946	882	296	19	131	139	2.57	10									yes	yes
105130580	195832	12,600	9/9/06	60	59	0.946	861	303	19	136	148	2.52	10									yes	yes
105130581	195832	12,600	9/9/06	61	60	0.946	861	303	19	136	148	2.52	10									yes	yes
105130582	195832	12,600	9/9/06	62	59	0.946	861	303	19	136	148	2.52	10									yes	yes
105130583	195832	12,600	9/9/06	61	59	0.946	869	300	19	131	143	2.46	10									yes	yes
105130584	195832	12,600	9/9/06	61	59	0.946	869	300	19	131	143	2.46	10									yes	yes
105130585	195832	12,600	9/9/06	61	59	0.946	869	300	19	131	143	2.46	10									yes	yes
105130586	195832	12,600	9/9/06	61	59	0.946	884	304	19	133	145	2.47	10									yes	yes
105130587	195832	12,600	9/9/06	61	59	0.946	884	304	19	133	145	2.47	10									yes	yes
105130588	195832	12,600	9/10/06	61	59	0.946	884	304	19	133	145	2.47	10	63	60	0.952	827	300	21	145	2.61		yes	yes
105130589	195832	12,600	9/10/06	61	59	0.946	898	304	19	137	144	2.5	10									yes	yes
105130590	195832	12,600	9/10/06	61	58	0.946	898	304	19	137	144	2.5	10									yes	yes
105130591	195832	12,600	9/10/06	61	59	0.946	898	304	19	137	144	2.5	10									yes	yes
105130592	195832	12,600	9/10/06	60	57	0.945	881	300	20	136	147	2.54	10									yes	yes
105130593	195832	12,600	9/10/06	60	57	0.945	881	300	20	136	147	2.54	10									yes	yes
105130595	195832	12,600	9/10/06	60	58	0.945	881	300	20	136	147	2.54	10									yes	yes
105130596	8261057	12,600	9/10/06	60	58	0.945	932	309	20	132	146	2.53	10									yes	yes
105130597	8261057	12,600	9/10/06	61	59	0.945	932	309	20	132	146	2.53	10									yes	yes
105130598	8261057	12,600	9/10/06	61	58	0.945	932	309	20	132	146	2.53	10									yes	yes
105130599	8261057	12,600	9/10/06	61	58	0.945	848	313	20	188	145	2.43	10									yes	yes
105130600	8261057	12,600	9/10/06	61	58	0.945	848	313	20	188	145	2.43	10									yes	yes
105130601	8261057	12,600	9/10/06	61	59	0.945	848	313	20	188	145	2.43	10									yes	yes
105130602	8261057	12,600	9/10/06	61	58	0.945	877	293	18	138	147	2.47	10									yes	yes
105130603	8261057	12,600	9/11/06	61	58	0.945	877	293	18	138	147	2.47	10									yes	yes
105130604	8261057	12,600	9/11/06	60	58	0.945	877	293	18	138	147	2.47	10	61	60	0.953	831	295	22	139	2.6		yes	yes
105130605	8261057	12,600	9/11/06	60	58	0.945	901	303	18	145	152	2.44	10									yes	yes
105130606	8261057	12,600	9/11/06	61	58	0.945	832	303	18	145	152	2.44	10									yes	yes
105130607	8261057	12,600	9/11/06	60	58	0.945	832	303	18	145	152	2.44	10									yes	yes
105130608	8261057	12,600	9/11/06	60	59	0.945	860	315	18	144	145	2.53	10									yes	yes
105130610	8261057	12,600	9/11/06	61	59	0.945	860	315	18	144	145	2.53	10									yes	yes
105130612	8261057	12,600	9/11/06	61	59	0.945	860	315	18	144	145	2.53	10									yes	yes
105130613	8261057	12,600	9/11/06	60	56	0.945	808	292	18	145	148	2.55	10									yes	yes
105130614	8261057	12,600	9/11/06	61	59	0.945	808	292	18	145	148	2.55	10									yes	yes
105130615	8261057	12,600	9/11/06	61	58	0.945	808	292	18	145	148	2.55	10									yes	yes
105130616	8261057	12,600	9/11/06	61	59	0.945	866	310	19	139	138	2.65	9									yes	yes
105130617	8261057	12,600	9/12/06	61	59	0.945	866	310	19	139	138	2.65	9									yes	yes
105130618	8261057	12,600	9/12/06	61	58	0.945	866	310	19	139	138	2.65	9									yes	yes
105130619	8261057	12,600	9/12/06	61	58	0.945	860	305	19	134	137	2.49	10									yes	yes
105130620	8261057	12,600	9/12/06	61	58	0.945	860	305	19	134	137	2.49	10									yes	yes
105130621	8261057	12,600	9/12/06	60	57	0.945	860	305	19	134	137	2.49	10	64	62	0.954	813	290	23	149	2.54		yes	yes
105130622	8261057	12,600	9/12/06	60	57	0.946	826	297	18	143	148	2.58	10									yes	yes
105130623	8261057	12,600	9/12/06	61	57	0.946	826	297	18	143	148	2.58	10									yes	yes
105130624	8261057	12,600	9/12/06	60	57	0.946	826	297	18	143	148	2.58	10									yes	yes
105130625	8261057	12,600	9/12/06	61	58	0.946	831	296	19	139	148	2.49	10									yes	yes
105130626	8261057	12,600	9/12/06	60	57	0.946	831	296	19	139	148	2.49	10									yes	yes
105130627	8261057	12,600	9/12/06	61	57	0.946	831	296	19	139	148	2.49	10									yes	yes
105130628	8261057	12,600	9/12/06	60	58	0.946	800	288	19	136	145	2.59	10									yes	yes
105130629	8261057	12,600	9/12/06	60	59	0.946	800	288	19	136	145	2.59	10									yes	yes

Appendix F-1
HDPE Geomembrane Log
White Mesa Mill, Cell 4A
Blanding, UT

				Manufacturer Quality Control Testing										CQA Conformance Testing								Acceptance	
Roll No.	Resin Batch No.	Area (SF)	Mfg. Date	Avg. Thick. 60 mil 1/roll	Min. Thick. 54 mil 1/roll	Density >0.94 g/cc 1/100,000	Elongation @ Break 700% 1/100,000	Break Strength 228 ppi 1/100,000	Yield Elongation 12%	Yield Strength 126	Puncture Resistance 108 lb. 1/100,000	Carbon Content 2 - 3 % 1/100,000	Carbon Disp. CAT 1-2 1/100,000	Average Thick. 60 mil 1/200,000	Min. Thick. 54 mil 1/200,000	Density >0.94 g/cc 1/200,000	Elongation @ Break 700% 1/200,000	Break Strength 228 ppi 1/200,000	Yield Elongation 12%	Yield Strength 126	Carbon Content 2 - 3 % 1/200,000	Carbon Disp. CAT 1-2 1/200,000	MQA	CQA
105130630	8261057	12,600	9/12/06	60	58	0.946	800	288	19	136	145	2.59	10										yes	yes
105130631	8261189	12,600	9/13/06	60	58	0.946	825	306	15	138	150	2.29	9										yes	yes
105130632	8261189	12,600	9/13/06	61	58	0.946	825	306	15	138	150	2.29	9										yes	yes
105130633	8261189	12,600	9/13/06	60	58	0.946	825	306	15	138	150	2.29	9										yes	yes
105130634	8261189	12,600	9/13/06	60	56	0.945	825	294	18	136	134	2.39	10										yes	yes
105130635	8261189	12,600	9/13/06	61	55	0.945	825	294	18	136	134	2.39	10										yes	yes
105130636	8261189	12,600	9/13/06	61	56	0.945	825	294	18	136	134	2.39	10	60	59	0.953	801	290	19	141	2.49		yes	yes
105130637	8261189	12,600	9/13/06	61	57	0.945	799	285	19	139	148	2.48	10										yes	yes
105130638	8261189	12,600	9/13/06	61	58	0.945	799	285	19	139	148	2.48	10										yes	yes
105130639	8261189	12,600	9/13/06	60	57	0.945	799	285	19	139	148	2.48	10										yes	yes
105130640	8261189	12,600	9/13/06	61	57	0.945	844	299	18	138	152	2.45	10										yes	yes
105130641	8261189	12,600	9/13/06	60	58	0.945	844	299	18	138	152	2.45	10										yes	yes
105130642	8261189	12,600	9/13/06	61	57	0.945	844	299	18	138	152	2.45	10										yes	yes
105130643	8261189	12,600	9/13/06	60	57	0.945	851	307	20	134	142	2.57	10										yes	yes
105130644	8261189	12,600	9/14/06	60	57	0.945	851	307	20	134	142	2.57	10										yes	yes
105130645	8261189	12,600	9/14/06	61	57	0.945	851	307	20	134	142	2.57	10										yes	yes
105130646	8261189	12,600	9/14/06	61	58	0.946	788	291	18	140	150	2.51	10										yes	yes
105130647	8261189	12,600	9/14/06	61	57	0.946	788	291	18	140	150	2.51	10										yes	yes
105130648	8261189	12,600	9/14/06	61	58	0.946	788	291	18	140	150	2.51	10										yes	yes
105130649	8261189	12,600	9/14/06	61	59	0.945	841	303	19	134	142	2.56	10										yes	yes
105130650	8261189	12,600	9/14/06	61	59	0.945	841	303	19	134	142	2.56	10										yes	yes
105130651	8261189	12,600	9/14/06	61	59	0.945	841	303	19	134	142	2.56	10	61	59	0.953	746	268	19	141	2.56		yes	yes
105130652	8261189	12,600	9/14/06	61	57	0.945	859	316	19	140	148	2.58	10										yes	yes
105130653	8261189	12,600	9/14/06	60	58	0.945	859	316	19	140	148	2.58	10										yes	yes
105130654	8261189	12,600	9/14/06	61	59	0.945	859	316	19	140	148	2.58	10										yes	yes
105130655	8261189	12,600	9/14/06	61	57	0.945	856	305	20	132	141	2.51	10										yes	yes
105130656	8261189	12,600	9/14/06	60	58	0.945	856	305	20	132	141	2.51	10										yes	yes
105130657	8261189	12,600	9/14/06	61	58	0.945	856	305	20	132	141	2.51	10										yes	yes
105130658	8261189	12,600	9/15/06	60	59	0.945	844	309	19	142	145	2.46	10										yes	yes
105130659	8261189	12,600	9/15/06	61	58	0.945	844	309	19	142	145	2.46	10										yes	yes
105130660	8261189	12,600	9/15/06	61	58	0.945	844	309	19	142	145	2.46	10										yes	yes
105130661	8261189	12,600	9/15/06	61	59	0.946	850	308	19	135	142	2.58	10										yes	yes
105130662	8261189	12,600	9/15/06	61	58	0.946	850	308	19	135	142	2.58	10										yes	yes
105130663	8261189	12,600	9/15/06	60	58	0.946	850	308	19	135	142	2.58	10										yes	yes
105130664	8261189	12,600	9/15/06	61	59	0.945	825	299	17	143	136	2.5	10										yes	yes
105130665	8261189	12,600	9/15/06	61	59	0.945	825	299	17	143	136	2.5	10										yes	yes
105130666	8261189	12,600	9/15/06	60	59	0.945	825	299	17	143	136	2.5	10	61	60	0.953	793	279	19	145	2.57		yes	yes
105130667	8261189	12,600	9/15/06	61	58	0.945	854	302	19	133	145	2.49	10										yes	yes
105130668	8261189	12,600	9/15/06	61	59	0.945	854	302	19	133	145	2.49	10										yes	yes
105130669	8261189	12,600	9/15/06	61	60	0.945	854	302	19	133	145	2.49	10										yes	yes
105130670	8261189	12,600	9/15/06	61	59	0.945	854	309	20	138	145	2.48	10										yes	yes
105130671	8261189	12,600	9/16/06	61	58	0.945	854	309	20	138	145	2.48	10										yes	yes
105130672	8261190	12,600	9/16/06	61	59	0.945	854	309	20	138	145	2.48	10										yes	yes
105130673	8261190	12,600	9/16/06	61	58	0.946	818	296	18	144	146	2.53	10										yes	yes
105130674	8261190	12,600	9/16/06	61	58	0.946	818	296	18	144	146	2.53	10										yes	yes
105130675	8261190	12,600	9/16/06	61	59	0.946	818	296	18	144	146	2.53	10										yes	yes
105130676	8261190	12,600	9/16/06	61	59	0.946	796	285	18	136	139	2.56	10										yes	yes
105130677	8261190	12,600	9/16/06	61	59	0.946	796	285	18	136	139	2.56	10										yes	yes
105130678	8261190	12,600	9/16/06	61	58	0.946	796	285	18	136	139	2.56	10										yes	yes
105130679	8261190	12,600	9/16/06	61	59	0.946	817	292	18	136	140	2.42	10										yes	yes
105130680	8261190	12,600	9/16/06	61	58	0.946	817	292	18	136	140	2.42	10										yes	yes
105130681	8261190	12,600	9/16/06	62	57	0.946	817	292	18	136	140	2.42	10	62	60	0.950	776	285	18	139	2.48		yes	yes
105130682	8261190	12,600	9/16/06	61	56	0.946	828	303	15	136	144	2.48	10										yes	yes
105130683	8261190	12,600	9/16/06	61	58	0.946	828	303	15	136	144	2.48	10										yes	yes
105130684	8261190	12,600	9/16/06	61	58	0.946	828	303	15	136	144	2.48	10										yes	yes
105130685	8261190	12,600	9/17/06	61	56	0.946	854	316	15	133	144	2.56	10										yes	yes
105130686	8261190	12,600	9/17/06	61	58	0.946	854	316	15	133	144	2.56	10										yes	yes
105130687	8261190	12,600	9/17/06	61	58	0.946	854	316	15	133	144	2.56	10	61	58	0.952	753	273	18	138	2.59		yes	yes

Appendix F-1
HDPE Geomembrane Log
White Mesa Mill, Cell 4A
Blanding, UT

				Manufacturer Quality Control Testing										CQA Conformance Testing								Acceptance	
Roll No.	Resin Batch No.	Area (SF)	Mfg. Date	Avg. Thick. 60 mil 1/roll	Min. Thick. 54 mil 1/roll	Density >0.94 g/cc 1/100,000	Elongation @ Break 700% 1/100,000	Break Strength 228 ppi 1/100,000	Yield Elongation 12%	Yield Strength 126	Puncture Resistance 108 lb. 1/100,000	Carbon Content 2 - 3 % 1/100,000	Carbon Disp. CAT 1-2 1/100,000	Average Thick. 60 mil 1/200,000	Min. Thick. 54 mil 1/200,000	Density >0.94 g/cc 1/200,000	Elongation @ Break 700% 1/200,000	Break Strength 228 ppi 1/200,000	Yield Elongation 12%	Yield Strength 126	Carbon Content 2 - 3 % 1/200,000	Carbon Disp. CAT 1-2 1/200,000	MQA	CQA
105130688	8261190	9,675	9/17/06	61	57	0.946	869	313	18	141	142	2.46	10										yes	yes
105130689	8261190	9,675	9/17/06	62	59	0.946	869	313	18	141	142	2.46	10										yes	yes
105130690	8261190	9,675	9/17/06	61	56	0.946	869	313	18	141	142	2.46	10										yes	yes
105130691	8261190	9,675	9/17/06	60	57	0.946	869	313	18	141	142	2.46	10										yes	yes
105130692	8261190	9,675	9/17/06	60	57	0.946	869	313	18	141	142	2.46	10										yes	yes
105130693	8261190	9,675	9/17/06	61	57	0.946	865	312	18	139	144	2.38	10										yes	yes
105130694	8261190	9,675	9/17/06	60	57	0.946	865	312	18	139	144	2.38	10										yes	yes
105130695	8261190	9,675	9/17/06	61	58	0.946	865	312	18	139	144	2.38	10										yes	yes
105130696	8261190	9,675	9/17/06	60	57	0.946	857	307	18	137	144	2.52	10										yes	yes
105130697	8261190	9,675	9/17/06	60	58	0.946	857	307	18	137	144	2.52	10										yes	yes
105130698	8261190	9,675	9/17/06	61	57	0.946	857	307	18	137	144	2.52	10										yes	yes
105130699	8261190	9,675	9/17/06	60	55	0.946	813	295	15	139	144	2.58	10										yes	yes
105130700	8261190	9,675	9/17/06	60	57	0.946	813	295	15	139	144	2.58	10										yes	yes
105130701	8261190	9,675	9/18/06	61	57	0.946	813	295	15	139	144	2.58	10										yes	yes
105130702	8261190	9,675	9/18/06	61	55	0.946	766	280	18	138	145	2.51	10										yes	yes
105130703	8261190	9,675	9/18/06	61	57	0.946	766	280	18	138	145	2.51	10										yes	yes
105130704	8261190	9,675	9/18/06	60	57	0.946	766	280	18	138	145	2.51	10										yes	yes
105130705	8261190	9,675	9/18/06	62	56	0.945	836	306	17	140	144	2.29	10										yes	yes
105130706	8261190	9,675	9/18/06	60	57	0.945	836	306	17	140	144	2.29	10										yes	yes
105130707	8261190	9,675	9/18/06	60	57	0.945	836	306	17	140	144	2.29	10										yes	yes
105130708	8261190	9,675	9/18/06	60	58	0.945	812	301	18	140	142	2.34	10	62	60	0.953	791	298	19	147	2.45		yes	yes
105130710	8261190	9,675	9/18/06	61	59	0.945	812	301	18	140	142	2.34	10										yes	yes
105130711	8261185	9,675	9/18/06	60	58	0.945	812	301	18	140	142	2.34	10										yes	yes
105130712	8261185	9,675	9/18/06	60	58	0.945	805	300	17	141	145	2.39	10										yes	yes
105130713	8261185	9,675	9/18/06	60	58	0.945	805	300	17	141	145	2.39	10										yes	yes
105130714	8261185	9,675	9/18/06	61	58	0.945	805	300	17	141	145	2.39	10										yes	yes
105130715	8261185	9,675	9/18/06	60	57	0.945	805	300	17	141	145	2.39	10										yes	yes
105130717	8261185	9,450	9/18/06	61	57	0.945	851	313	16	137	146	2.32	10										yes	yes
105130718	8261185	9,450	9/18/06	60	56	0.945	851	313	16	137	146	2.32	10										yes	yes
105130719	8261185	9,450	9/19/06	60	56	0.945	851	313	16	137	146	2.32	10										yes	yes
105130720	8261185	9,450	9/19/06	61	57	0.945	853	295	16	133	140	2.4	10										yes	yes
105130721	8261185	9,450	9/19/06	60	57	0.945	853	295	16	133	140	2.4	10										yes	yes
105130722	8261185	9,450	9/19/06	60	57	0.945	853	295	16	133	140	2.4	10										yes	yes
105130723	8261185	9,450	9/19/06	61	57	0.945	853	295	16	133	140	2.4	10										yes	yes
105130724	8261185	9,450	9/19/06	61	57	0.945	810	306	17	142	148	2.41	10										yes	yes
105130725	8261185	9,450	9/19/06	60	58	0.945	810	306	17	142	148	2.41	10										yes	yes
105130726	8261185	9,450	9/19/06	60	58	0.945	810	306	17	142	148	2.41	10										yes	yes
105130727	8261185	9,450	9/19/06	61	58	0.945	810	306	17	142	148	2.41	10										yes	yes
105130728	8261185	9,450	9/19/06	61	57	0.944	767	284	17	141	147	2.34	10										yes	yes
105130729	8261185	9,450	9/19/06	61	58	0.944	767	284	17	141	147	2.34	10	62	60	0.953	786	292	19	157	2.48		yes	yes
105130730	8261185	9,450	9/19/06	61	56	0.944	767	284	17	141	147	2.34	10										yes	yes
105130731	8261185	9,450	9/19/06	61	58	0.944	767	284	17	141	147	2.34	10										yes	yes
105130732	8261185	9,450	9/19/06	60	58	0.944	817	297	17	137	146	2.36	10										yes	yes
105130733	8261185	9,450	9/19/06	61	59	0.944	817	297	17	137	146	2.36	10										yes	yes
105130734	8261185	9,450	9/19/06	60	57	0.944	817	297	17	137	146	2.36	10										yes	yes
105130735	8261185	9,450	9/19/06	61	58	0.944	817	297	17	137	146	2.36	10										yes	yes
105130736	8261185	9,450	9/20/06	61	58	0.944	880	312	17	131	140	2.34	10										yes	yes
105130737	8261185	9,450	9/20/06	61	58	0.944	880	312	17	131	140	2.34	10										yes	yes
105130738	8261185	9,450	9/20/06	61	58	0.944	880	312	17	131	140	2.34	10										yes	yes
105130739	8261185	9,450	9/20/06	61	59	0.944	880	312	17	131	140	2.34	10										yes	yes
105130740	8261185	9,450	9/20/06	61	58	0.944	862	316	17	140	148	2.33	10										yes	yes
105130741	8261185	9,450	9/20/06	60	58	0.944	862	316	17	140	148	2.33	10										yes	yes
105130742	8261185	9,450	9/20/06	61	58	0.944	862	316	17	140	148	2.33	10										yes	yes
105130743	8261185	9,450	9/20/06	60	58	0.944	862	316	17	140	148	2.33	10										yes	yes
103143859	8271935	12,600	3/17/08	61	58	0.945	856	309	18	138	148	2.49	10										yes	yes
103143860	8271935	12,600	3/17/08	61	59	0.943	821	299	17	137	148	2.57	10	62	60	0.95	793	299	21	146	2.55		yes	yes
103143861	8271935	12,600	3/17/08	61	60	0.943	821	299	17	137	148	2.57	10										yes	yes
103143862	8271935	12,600	3/17/08	61	59	0.943	821	299	17	137	148	2.57	10										yes	yes

Appendix F-1
HDPE Geomembrane Log
White Mesa Mill, Cell 4A
Blanding, UT

				Manufacturer Quality Control Testing										CQA Conformance Testing									Acceptance	
Roll No.	Resin Batch No.	Area (SF)	Mfg. Date	Avg. Thick. 60 mil 1/roll	Min. Thick. 54 mil 1/roll	Density >0.94 g/cc 1/100,000	Elongation @ Break 700% 1/100,000	Break Strength 228 ppi 1/100,000	Yield Elongation 12%	Yield Strength 126	Puncture Resistance 108 lb. 1/100,000	Carbon Content 2 - 3 % 1/100,000	Carbon Disp. CAT 1-2 1/100,000	Average Thick. 60 mil 1/200,000	Min. Thick. 54 mil 1/200,000	Density >0.94 g/cc 1/200,000	Elongation @ Break 700% 1/200,000	Break Strength 228 ppi 1/200,000	Yield Elongation 12%	Yield Strength 126	Carbon Content 2 - 3 % 1/200,000	Carbon Disp. CAT 1-2 1/200,000	MQA	CQA
103143863	8271935	12,600	3/17/08	61	59	0.943	778	273	18	131	139	2.50	10										yes	yes
Textured Geomembrane																								
103143128				62	58	0.948			15	162	146	2.52		65	61	0.953	589	218	19	164	2.60		yes	yes

APPENDIX F-2

CQA CONFORMANCE TEST RESULTS

September 19, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2265-62-07
Material(s) Tested:	1 GSE 60 mil Smooth HDPE Black and White Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jarrett A. Nelson
Special Projects Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130507
TRI Log #: E2265-62-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	63	63	62	62	61	60	58	60	62	61	**61** **58**	2 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.956	0.956	0.956								**0.956**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.49	2.50									**2.50**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	143	151	147	149	147						**147**	3
TD Yield Strength (ppi)	136	144	139	147	149						**143**	5
MD Break Strength (ppi)	292	269	295	287	241						**277**	22
TD Break Strength (ppi)	311	302	281	330	321						**309**	19
MD Yield Elongation (%)	22	19	22	19	19						**20**	2
TD Yield Elongation (%)	20	20	20	20	20						**20**	0
MD Break Elongation (%)	856	794	846	869	724						**818**	60
TD Break Elongation (%)	1015	936	885	1028	984						**970**	59

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

September 21, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2265-68-07
Material(s) Tested:	1 GSE 60 mil Smooth HDPE Black and White Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jarrett A. Nelson

Jarrett A. Nelson
Special Projects Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130536
TRI Log #: E2265-68-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	59	63	60	60	57	62	60	61	59	62	**60**	2
											57	<< min
Density (ASTM D 1505)												
Density (g/cm3)	0.954	0.954	0.954								**0.954**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.71	2.65									**2.68**	0.04
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	137	136	146	141	142						**140**	4
TD Yield Strength (ppi)	150	138	148	144	145						**145**	5
MD Break Strength (ppi)	289	260	296	299	289						**287**	16
TD Break Strength (ppi)	315	244	317	311	297						**297**	31
MD Yield Elongation (%)	22	22	22	22	22						**22**	0
TD Yield Elongation (%)	21	19	21	21	19						**20**	1
MD Break Elongation (%)	868	788	859	883	851						**850**	37
TD Break Elongation (%)	974	758	973	979	925						**922**	94

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

September 25, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2265-72-10
Material(s) Tested:	3 GSE 60 mil Smooth HDPE Black and White Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jarrett A. Nelson
Special Projects Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130588
TRI Log #: E2265-72-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	67	63	63	64	63	61	66	65	61	60	**63** **60**	2 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.952	0.952	0.952								**0.952**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.59	2.62									**2.61**	0.02
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	140	149	145	143	150						**145**	4
TD Yield Strength (ppi)	141	154	154	150	154						**151**	6
MD Break Strength (ppi)	308	303	305	299	284						**300**	9
TD Break Strength (ppi)	301	335	292	289	268						**297**	24
MD Yield Elongation (%)	21	21	21	21	21						**21**	0
TD Yield Elongation (%)	22	22	22	22	20						**22**	1
MD Break Elongation (%)	856	821	846	843	768						**827**	35
TD Break Elongation (%)	880	944	838	823	755						**848**	70

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130604
TRI Log #: E2265-72-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	60	60	61	60	61	60	60	63	60	60	**61**	1
											60	<< min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.953	0.954								**0.953**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.60	2.59									**2.60**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	141	141	139	137	138						**139**	2
TD Yield Strength (ppi)	144	144	141	150	147						**145**	3
MD Break Strength (ppi)	296	280	324	281	294						**295**	18
TD Break Strength (ppi)	315	244	317	311	297						**297**	31
MD Yield Elongation (%)	22	22	22	22	22						**22**	0
TD Yield Elongation (%)	21	21	21	21	21						**21**	0
MD Break Elongation (%)	814	783	916	803	840						**831**	52
TD Break Elongation (%)	793	894	920	804	831						**848**	56

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130621
TRI Log #: E2265-72-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	64	65	63	64	62	62	65	65	63	65	**64**	1
											62	<< min
Density (ASTM D 1505)												
Density (g/cm3)	0.954	0.954	0.954								**0.954**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.56	2.52									**2.54**	0.03
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	141	149	154	151	150						**149**	5
TD Yield Strength (ppi)	148	144	148	148	156						**149**	4
MD Break Strength (ppi)	256	319	297	287	292						**290**	23
TD Break Strength (ppi)	329	309	299	314	286						**307**	16
MD Yield Elongation (%)	22	23	23	23	23						**23**	0
TD Yield Elongation (%)	22	22	22	22	22						**22**	0
MD Break Elongation (%)	749	890	809	796	820						**813**	51
TD Break Elongation (%)	930	909	864	909	799						**882**	52

MD Machine Direction TD Transverse Direction

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September 25, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2265-74-09
Material(s) Tested:	1 GSE 60 mil Smooth HDPE Black and White Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jarrett A. Nelson

Jarrett A. Nelson
Special Projects Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130566
TRI Log #: E2265-74-09

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	60	61	58	59	61	60	59	63	62	62	**61**	2
											58	<< min
Density (ASTM D 1505)												
Density (g/cm3)	0.955	0.955	0.956								**0.955**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.66	2.61									**2.64**	0.04
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	143	147	143	144	148						**145**	2
TD Yield Strength (ppi)	146	140	149	149	152						**147**	5
MD Break Strength (ppi)	271	263	281	286	291						**278**	11
TD Break Strength (ppi)	285	222	243	302	255						**261**	32
MD Yield Elongation (%)	23	23	23	21	25						**23**	1
TD Yield Elongation (%)	19	19	19	19	19						**19**	0
MD Break Elongation (%)	770	736	816	815	825						**793**	38
TD Break Elongation (%)	843	708	726	904	755						**787**	83

MD Machine Direction TD Transverse Direction

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September 28, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

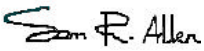
Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2265-78-06
Material(s) Tested:	9 GSE 60 mil Smooth HDPE Black and White Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,



Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105129441
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	64	63	63	64	61	62	63	63	62	62	**63** **61**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.955	0.955	0.955								**0.955**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.46	2.50									**2.48**	0.03
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	2	1	1	1	2							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	150	153	150	154	144						**150**	4
TD Yield Strength (ppi)	167	169	167	167	167						**167**	1
MD Break Strength (ppi)	304	264	299	303	266						**287**	20
TD Break Strength (ppi)	326	325	252	251	321						**295**	40
MD Yield Elongation (%)	21	23	19	21	21						**21**	1
TD Yield Elongation (%)	19	19	19	19	19						**19**	0
MD Break Elongation (%)	816	719	814	800	734						**777**	47
TD Break Elongation (%)	879	889	710	705	891						**815**	98

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105129458
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	61	60	61	60	62	60	59	61	59	59	**60** **59**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.955	0.955	0.955								**0.955**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.58	2.63									**2.61**	0.04
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	144	150	149	153	161						**151**	6
TD Yield Strength (ppi)	154	154	158	161	166						**159**	5
MD Break Strength (ppi)	285	331	312	305	338						**314**	21
TD Break Strength (ppi)	330	328	290	295	316						**312**	18
MD Yield Elongation (%)	20	20	20	20	20						**20**	0
TD Yield Elongation (%)	19	19	19	19	19						**19**	0
MD Break Elongation (%)	790	899	858	828	910						**857**	50
TD Break Elongation (%)	925	943	836	850	890						**889**	46

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130222
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	65	64	60	62	59	61	62	61	60	62	**62** **59**	2 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.954	0.955	0.955								**0.955**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.40	2.39									**2.40**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	148	148	138	155	146						**147**	6
TD Yield Strength (ppi)	145	147	160	161	155						**154**	7
MD Break Strength (ppi)	296	305	252	300	284						**287**	21
TD Break Strength (ppi)	179	304	293	296	307						**276**	54
MD Yield Elongation (%)	19	19	19	19	19						**19**	0
TD Yield Elongation (%)	21	21	21	21	21						**21**	0
MD Break Elongation (%)	818	844	759	903	815						**828**	52
TD Break Elongation (%)	526	906	859	854	909						**811**	161

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130238
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	62	60	64	61	62	63	61	59	63	62	**62** **59**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.951	0.952	0.952								**0.952**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.29	2.31									**2.30**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	148	154	156	150	156						**153**	4
TD Yield Strength (ppi)	154	158	158	160	158						**158**	2
MD Break Strength (ppi)	238	255	336	276	304						**282**	39
TD Break Strength (ppi)	258	307	244	291	305						**281**	29
MD Yield Elongation (%)	21	21	21	21	21						**21**	0
TD Yield Elongation (%)	19	19	19	19	19						**19**	0
MD Break Elongation (%)	708	729	943	801	853						**807**	96
TD Break Elongation (%)	768	896	743	853	906						**833**	75

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130253
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	60	60	59	60	61	59	59	61	60	62	**60** **59**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.953	0.953								**0.953**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.34	2.35									**2.35**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	2	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	144	145	142	143	128						**140**	7
TD Yield Strength (ppi)	157	154	152	160	155						**156**	3
MD Break Strength (ppi)	309	279	306	311	285						**298**	15
TD Break Strength (ppi)	321	297	253	302	228						**280**	38
MD Yield Elongation (%)	17	20	22	20	20						**20**	2
TD Yield Elongation (%)	19	19	19	19	19						**19**	0
MD Break Elongation (%)	908	823	861	878	863						**866**	31
TD Break Elongation (%)	923	896	749	873	698						**828**	99

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130270
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	59	60	62	63	60	62	61	59	60	62	**61**	1
											59	<< min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.954	0.953								**0.953**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.34	2.37									**2.36**	0.02
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	150	150	152	142	140						**147**	5
TD Yield Strength (ppi)	155	163	162	156	164						**160**	4
MD Break Strength (ppi)	290	292	292	278	277						**286**	8
TD Break Strength (ppi)	293	247	254	256	299						**270**	24
MD Yield Elongation (%)	20	20	20	20	20						**20**	0
TD Yield Elongation (%)	22	23	23	23	22						**23**	1
MD Break Elongation (%)	840	849	845	844	814						**838**	14
TD Break Elongation (%)	886	736	760	770	878						**806**	70

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130286
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	61	61	61	62	62	59	61	62	59	60	**61** **59**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.952	0.952	0.952								**0.952**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.45	2.42									**2.44**	0.02
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	2	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	145	142	153	156	145						**148**	6
TD Yield Strength (ppi)	159	159	161	155	166						**160**	4
MD Break Strength (ppi)	289	305	285	292	308						**296**	10
TD Break Strength (ppi)	298	288	299	275	315						**295**	15
MD Yield Elongation (%)	20	19	20	25	22						**21**	2
TD Yield Elongation (%)	21	21	21	22	22						**21**	1
MD Break Elongation (%)	819	878	799	820	853						**834**	31
TD Break Elongation (%)	865	855	875	839	898						**866**	22

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130301
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	60	61	60	62	59	61	60	61	64	63	**61** **59**	2 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.951	0.951	0.951								**0.951**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.35	2.37									**2.36**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	2	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	141	145	147	140	142						**143**	3
TD Yield Strength (ppi)	156	156	148	155	158						**155**	4
MD Break Strength (ppi)	296	272	286	305	293						**290**	12
TD Break Strength (ppi)	287	292	312	321	312						**305**	15
MD Yield Elongation (%)	20	20	20	20	21						**20**	0
TD Yield Elongation (%)	22	22	22	22	22						**22**	0
MD Break Elongation (%)	878	799	823	901	855						**851**	41
TD Break Elongation (%)	815	834	929	928	895						**880**	53

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130317
TRI Log #: E2265-78-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	61	62	60	60	59	58	60	62	62	63	**61** **58**	2 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.952	0.952	0.952								**0.952**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.46	2.47									**2.47**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	142	143	141	146	151						**145**	4
TD Yield Strength (ppi)	146	143	150	157	157						**151**	6
MD Break Strength (ppi)	285	266	262	289	283						**277**	12
TD Break Strength (ppi)	330	284	273	278	315						**296**	25
MD Yield Elongation (%)	18	18	18	18	18						**18**	0
TD Yield Elongation (%)	19	19	19	19	19						**19**	0
MD Break Elongation (%)	811	775	783	833	813						**803**	24
TD Break Elongation (%)	970	883	824	810	935						**884**	69

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 2, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2265-81-07
Material(s) Tested:	6 GSE 60 mil Smooth HDPE Black and White Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130636
TRI Log #: E2265-81-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	61	62	61	60	59	59	61	60	62	59	**60**	1
											59	<< min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.953	0.954								**0.953**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.50	2.47									**2.49**	0.02
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	2	1	1							
Rating - 2nd field view	1	1	2	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	142	141	141	137	143						**141**	2
TD Yield Strength (ppi)	143	140	142	135	140						**140**	3
MD Break Strength (ppi)	281	301	312	258	296						**290**	21
TD Break Strength (ppi)	295	253	296	252	237						**267**	27
MD Yield Elongation (%)	19	19	20	20	19						**19**	1
TD Yield Elongation (%)	18	18	18	18	19						**18**	0
MD Break Elongation (%)	775	841	868	738	785						**801**	52
TD Break Elongation (%)	846	755	846	751	685						**777**	69

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130651
TRI Log #: E2265-81-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	59	62	59	59	61	61	62	60	63	62	**61** **59**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.954	0.953	0.953								**0.953**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.56	2.56									**2.56**	0.00
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	2	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	139	139	144	140	144						**141**	3
TD Yield Strength (ppi)	144	154	152	148	156						**151**	5
MD Break Strength (ppi)	276	247	269	257	290						**268**	17
TD Break Strength (ppi)	312	308	321	296	282						**304**	15
MD Yield Elongation (%)	19	19	19	19	19						**19**	0
TD Yield Elongation (%)	18	19	19	19	19						**19**	0
MD Break Elongation (%)	764	703	748	729	785						**746**	32
TD Break Elongation (%)	935	874	899	851	796						**871**	52

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130666
TRI Log #: E2265-81-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	62	61	62	62	60	62	60	61	61	61	**61** **60**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.953	0.954								**0.953**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.57	2.56									**2.57**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	144	148	144	142	147						**145**	2
TD Yield Strength (ppi)	145	146	145	142	142						**144**	2
MD Break Strength (ppi)	244	294	266	286	306						**279**	24
TD Break Strength (ppi)	281	301	293	257	270						**280**	18
MD Yield Elongation (%)	19	19	19	19	20						**19**	0
TD Yield Elongation (%)	18	18	18	19	19						**18**	1
MD Break Elongation (%)	700	828	763	819	855						**793**	62
TD Break Elongation (%)	810	875	863	759	788						**819**	49

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130681
TRI Log #: E2265-81-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	61	62	60	62	63	62	63	61	61	61	**62** **60**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.950	0.950	0.950								**0.950**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.48	2.47									**2.48**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	136	137	141	140	143						**139**	3
TD Yield Strength (ppi)	144	140	142	142	138						**141**	2
MD Break Strength (ppi)	272	284	289	290	291						**285**	8
TD Break Strength (ppi)	290	302	305	290	320						**301**	12
MD Yield Elongation (%)	18	18	18	18	18						**18**	0
TD Yield Elongation (%)	19	19	19	19	19						**19**	0
MD Break Elongation (%)	728	776	786	801	790						**776**	29
TD Break Elongation (%)	836	880	895	856	921						**878**	33

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130687
TRI Log #: E2265-81-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	58	62	60	63	61	63	61	60	62	62	**61** **58**	2 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.952	0.952	0.951								**0.952**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.60	2.57									**2.59**	0.02
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	137	133	140	140	142						**138**	4
TD Yield Strength (ppi)	146	145	149	141	142						**145**	3
MD Break Strength (ppi)	284	273	280	267	263						**273**	9
TD Break Strength (ppi)	292	248	304	241	301						**277**	30
MD Yield Elongation (%)	18	18	18	18	19						**18**	0
TD Yield Elongation (%)	21	21	21	21	21						**21**	0
MD Break Elongation (%)	763	775	763	743	724						**753**	20
TD Break Elongation (%)	859	751	884	748	893						**827**	72

MD Machine Direction TD Transverse Direction

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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130708
TRI Log #: E2265-81-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	61	62	61	60	62	61	63	61	63	61	**62**	1
											60	<< min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.953	0.954								**0.953**	0.001
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.48	2.42									**2.45**	0.04
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	146	145	148	151	146						**147**	2
TD Yield Strength (ppi)	163	158	164	164	162						**162**	2
MD Break Strength (ppi)	302	270	319	304	297						**298**	18
TD Break Strength (ppi)	333	284	289	319	308						**307**	20
MD Yield Elongation (%)	19	20	20	19	19						**19**	1
TD Yield Elongation (%)	19	17	19	17	17						**18**	1
MD Break Elongation (%)	794	730	844	794	793						**791**	40
TD Break Elongation (%)	908	794	806	868	840						**843**	46

MD Machine Direction TD Transverse Direction

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 2, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2265-88-03
Material(s) Tested:	1 GSE 60 mil Smooth HDPE Black and White Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: GSE 60 mil Smooth HDPE Black and White Geomembrane
Sample Identification: 105130729
TRI Log #: E2265-88-03

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	60	62	62	63	62	62	62	62	63	63	**62** **60**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.953	0.953								**0.953**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.46	2.49									**2.48**	0.02
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	158	154	158	158	158						**157**	2
TD Yield Strength (ppi)	154	156	161	158	161						**158**	3
MD Break Strength (ppi)	289	297	281	294	298						**292**	7
TD Break Strength (ppi)	304	288	300	307	295						**299**	8
MD Yield Elongation (%)	19	19	19	19	19						**19**	0
TD Yield Elongation (%)	20	20	20	20	20						**20**	0
MD Break Elongation (%)	769	805	754	788	815						**786**	25
TD Break Elongation (%)	871	815	836	863	829						**843**	24

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

May 28, 2008

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jpryor@comanco.com
cc email: cfore@comanco.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-83-10
Material(s) Tested:	1 GSE 60 mil Smooth HDPE Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5199) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

MPatel

Dr. Mansukh Patel
Sr. Laboratory Coordinator
Geosynthetic Services Division
www.GeosyntheticTesting.com

cc: Sam R. Allen, Vice President and Division Manager

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: GSE 60 mil Smooth HDPE Geomembrane
Sample Identification: 103143860
TRI Log #: E2310-83-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	63	62	62	62	61	60	62	63	61	61	**62** **60**	1 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.950	0.950	0.950								**0.950**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.56	2.54									**2.55**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	137	144	150	152	145						**146**	6
TD Yield Strength (ppi)	146	149	149	152	143						**148**	3
MD Break Strength (ppi)	321	262	322	275	316						**299**	28
TD Break Strength (ppi)	294	317	271	330	271						**297**	27
MD Yield Elongation (%)	21	21	21	21	21						**21**	0
TD Yield Elongation (%)	17	17	17	17	17						**17**	0
MD Break Elongation (%)	856	699	841	716	854						**793**	79
TD Break Elongation (%)	840	889	761	918	789						**839**	66

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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May 28, 2008

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jpryor@comanco.com
cc email: cfore@comanco.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-87-10
Material(s) Tested:	1 GSE 60 mil Textured HDPE Geomembrane(s)
Test(s) Requested:	Thickness (ASTM D 5994) Density (ASTM D 1505) Carbon Content (ASTM D 1603, mod.) Carbon Dispersion (ASTM D 5596) Tensile (ASTM D 638/GRI GM13)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Dr. Mansukh Patel
Sr. Laboratory Coordinator
Geosynthetic Services Division
www.GeosyntheticTesting.com

cc: Sam R. Allen, Vice President and Division Manager

GeosyntheticTesting.com
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GEOMEMBRANE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: GSE 60 mil Textured HDPE Geomembrane
Sample Identification: 103143128
TRI Log #: E2310-87-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5994)												
Thickness (mils)	61	68	68	64	69	63	65	64	64	63	**65** **61**	3 << min
Density (ASTM D 1505)												
Density (g/cm3)	0.953	0.953	0.953								**0.953**	0.000
Carbon Black Content (ASTM D 1603, mod.)												
% Carbon Black	2.59	2.60									**2.60**	0.01
Carbon Black Dispersion (ASTM D 5596)												
Rating - 1st field view	1	1	1	1	1							
Rating - 2nd field view	1	1	1	1	1							
Tensile Properties (ASTM D 638/GRI GM 13, 2 ipm strain rate, Type IV specimen - HDPE)												
MD Yield Strength (ppi)	152	159	168	172	170						**164**	8
TD Yield Strength (ppi)	158	163	173	168	180						**168**	9
MD Break Strength (ppi)	228	162	237	222	241						**218**	32
TD Break Strength (ppi)	186	176	180	184	178						**181**	4
MD Yield Elongation (%)	19	19	19	19	19						**19**	0
TD Yield Elongation (%)	17	17	17	17	17						**17**	0
MD Break Elongation (%)	641	439	636	590	638						**589**	86
TD Break Elongation (%)	570	540	531	541	486						**534**	30

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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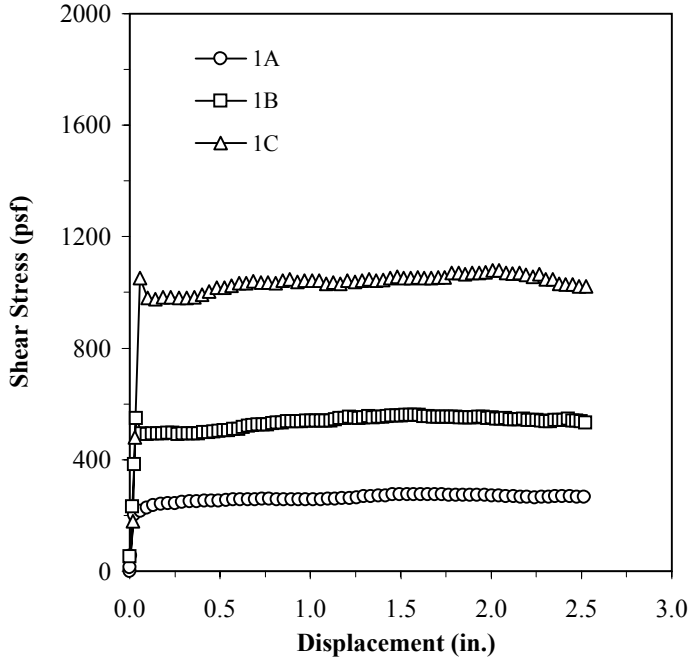
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

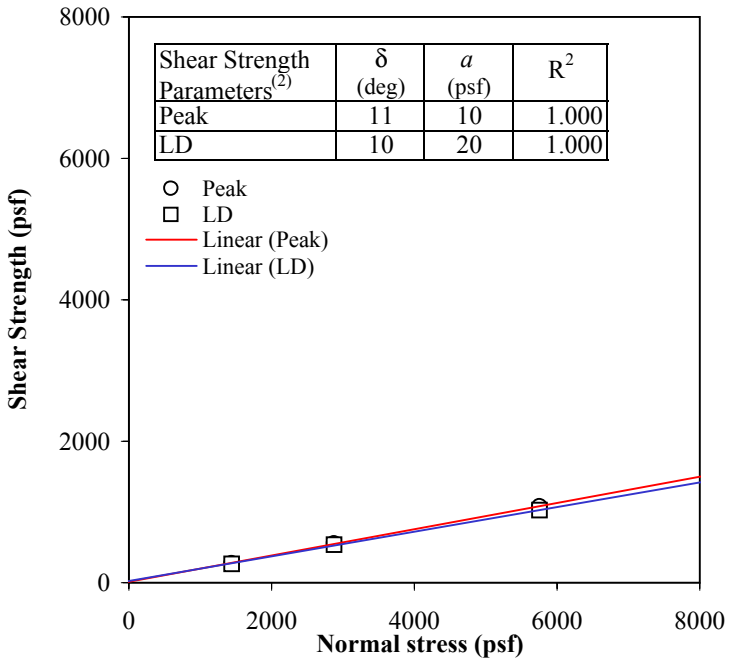
APPENDIX F-3

INTERFACE SHEAR STRENGTH TESTING RESULTS

GEOSYNTEC CONSULTANTS - INTERNATIONAL URANIUM CORP PROJECT
DIRECT SHEAR TESTING (ASTM D 5321)

Test Series Number 1: SKAPS TN 330 geonet in machine direction against white side of GSE 60-mil black/white smooth HDPE geomembrane (Roll # 105130507) in machine direction under wetted conditions





Test No.	Shear Box Size (in. x in.)	Normal Stress (psf)	Shear Rate (in./min)	Soaking Stress (psf)	Soaking Time (hour)	Consolidation Stress (psf)	Consolidation Time (hour)	Lower Soil γ_d (pcf)	Lower Soil ω_i (%)	Lower Soil ω_f (%)	Upper Soil γ_d (pcf)	Upper Soil ω_i (%)	Upper Soil ω_f (%)	GCL ω_i (%)	GCL ω_f (%)	Shear Stress τ_P (psf)	Shear Stress τ_{LD} (psf)	Failure Mode
1A	12 x 12	1440	0.04	-	-	-	-	-	-	-	-	-	-	-	-	276	266	(1)
1B	12 x 12	2880	0.04	-	-	-	-	-	-	-	-	-	-	-	-	549	533	(1)
1C	12 x 12	5760	0.04	-	-	-	-	-	-	-	-	-	-	-	-	1079	1022	(1)

NOTES:

(1) Sliding (i.e., shear failure) occurred at intended test interface in each test.

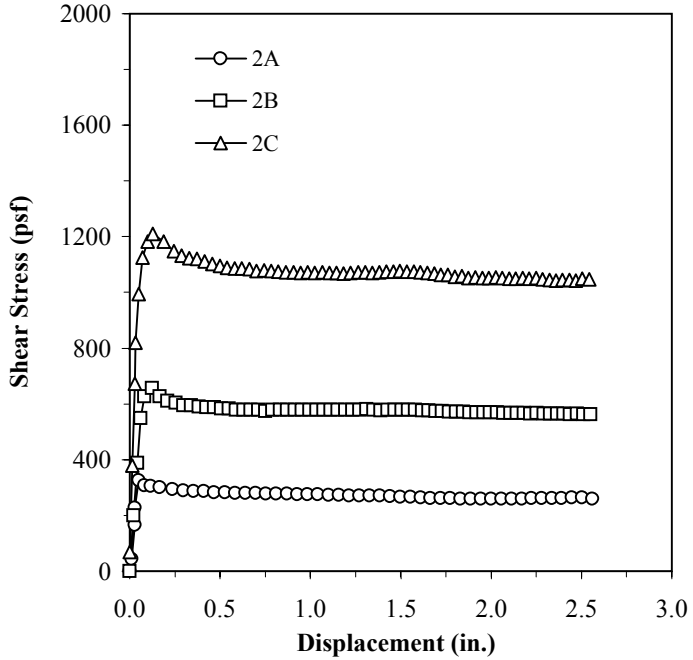
(2) The reported total-stress parameters of friction angle and adhesion were determined from a best-fit line drawn through the test data. Caution should be exercised in using these strength parameters for applications involving normal stresses outside the range of the stresses covered by the test series. The large-displacement (LD) shear strength was calculated using the shear force measured at the end of the test.

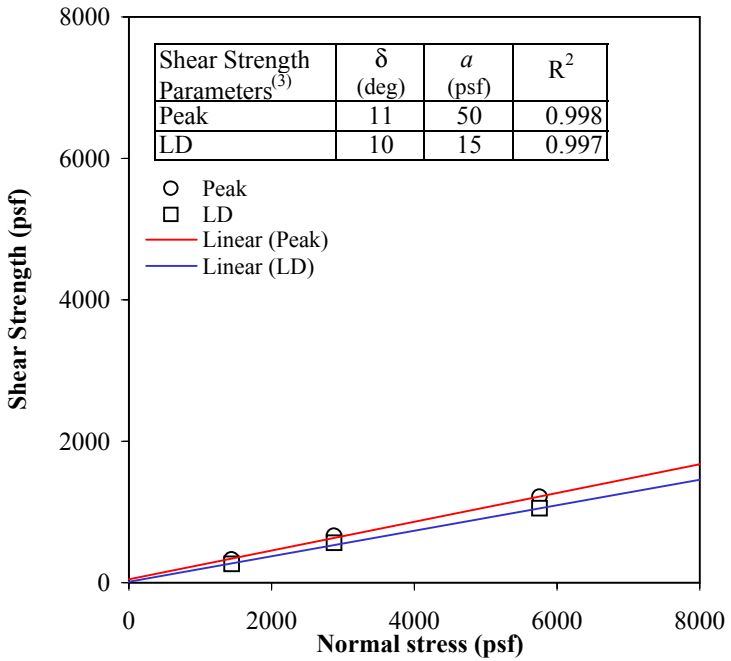
DATE OF TEST:	11/6/2006
FIGURE NO.	B-1
PROJECT NO.	SGI6014-03
DOCUMENT NO.	
FILE NO.	

SGI TESTING SERVICES, LLC

GEOSYNTEC CONSULTANTS - INTERNATIONAL URANIUM CORP PROJECT
DIRECT SHEAR TESTING (ASTM D 5321)

Test Series Number 2: Woven side of Bentomat ST GCL (Lot # 200640LO/Roll #6397) in machine direction against black side of GSE 60-mil black/white smooth HDPE geomembrane (Roll # 105130507) in machine direction under soaked and consolidated conditions





Test No.	Shear Box Size (in. x in.)	Normal Stress (psf)	Shear Rate (in./min)	GCL Soaking Stress (psf)	GCL Soaking Time (hour)	Consolidation(1) Stress (psf)	Consolidation(1) Time (hour)	Lower Soil γ_d (pcf)	Lower Soil ω_i (%)	Lower Soil ω_f (%)	Upper Soil γ_d (pcf)	Upper Soil ω_i (%)	Upper Soil ω_f (%)	GCL ω_i (%)	GCL ω_f (%)	Shear Stress τ_P (psf)	Shear Stress τ_{LD} (psf)	Failure Mode
2A	12 x 12	1440	0.04	1440	24	1440	24	-	-	-	-	-	-	17.9	68.8	325	259	(2)
2B	12 x 12	2880	0.04	2880	24	2880	24	-	-	-	-	-	-	17.9	55.8	657	562	(2)
2C	12 x 12	5760	0.04	5760	24	5760	24	-	-	-	-	-	-	17.9	48.7	1211	1046	(2)

NOTES:

(1) The hydrated GCL specimen was placed on the geomembrane and consolidated together under each test normal stress for 24 hours prior to shearing. The test specimens were not submerged in water during consolidation.

(2) Sliding (i.e., shear failure) occurred at intended test interface in each test.

(3) The reported total-stress parameters of friction angle and adhesion were determined from a best-fit line drawn through the test data. Caution should be exercised in using these strength parameters for applications involving normal stresses outside the range of the stresses covered by the test series. The large-displacement (LD) shear strength was calculated using the shear force measured at the end of the test.

DATE OF TEST:	11/3 to 11/7/2006
FIGURE NO.	B-2
PROJECT NO.	SGI6014-03
DOCUMENT NO.	
FILE NO.	

SGI TESTING SERVICES, LLC

APPENDIX F-4

SUB-GRADE ACCEPTANCE FORM

CERTIFICATE OF ACCEPTANCE
SUBGRADE SURFACE

INSTALLER	PROJECT
NAME: Comanco Environmental Corporation	NAME: Cell 4A - White Mesa Mill
ADDRESS: 1135 Terminal Way	Project No.: SC0349 / 02 / 03
Suite 204-A	LOCATION: Blanding, UT
Reno, NV 89502	
INSTALLER AUTHORIZED REPRESENTATIVE: JOSE HERNANDEZ	OWNER: Denison Mines (USA) Corporation

I, The undersigned, duly authorized representative of Comanco Environmental Corporation do hereby accept the surface on which the geosynthetics will be installed and shall be responsible for maintaining the suitability of this surface, in accordance with the project specifications. (i.e., The contractor shall not install the geosynthetics until the subgrade surface is acceptable. Installation of the geosynthetics will be considered acceptance of the subgrade.)

PRIMARY: ☐ SECONDARY: ☒ OTHER: _____

DATE	PANEL NOS.	SIGNATURE
09 OCT 07	1-92	
10 OCT 07	3-8	
11 OCT 07	9-18	
12 OCT 07	19-27	
15 OCT 07	28-37	
16 OCT 07	38-41	
17 OCT 07	42-46	
18 OCT 07	47-53	
19 OCT 07	54-58	
20 OCT 07	59-63	
22 OCT 07	64-68	
23 OCT 07	69-73	
25 OCT 07	74-84	
27 OCT 07	85-101	
30 OCT 07	101-116	
31 OCT 07	117-127	
01 NOV 07	128-130	
02 NOV 07	131-136	
05 NOV 07	137-146	

CERTIFICATE OF ACCEPTANCE
SUBGRADE SURFACE

INSTALLER	PROJECT
NAME: Comanco Environmental Corporation	NAME: Cell 4A - White Mesa Mill
ADDRESS: 1135 Terminal Way	Project No.: SC0349 / 02 / 03
Suite 204-A	LOCATION: Blanding, UT
Reno, NV 89502	
INSTALLER AUTHORIZED REPRESENTATIVE: JOSE HERNANDEZ	OWNER: Denison Mines (USA) Corporation

I, The undersigned, duly authorized representative of Comanco Environmental Corporation do hereby accept the surface on which the geosynthetics will be installed and shall be responsible for maintaining the suitability of this surface, in accordance with the project specifications. (i.e., The contractor shall not install the geosynthetics until the subgrade surface is acceptable. Installation of the geosynthetics will be considered acceptance of the subgrade.)

PRIMARY: ☐ SECONDARY: [redacted] OTHER: _____

DATE	PANEL NOS.	SIGNATURE
07 NOV 07	147-157	Jose H
09 NOV 07	158-169	Jose
12 NOV 07	170-184	Jose
14 NOV 07	185-200	Jose
15 NOV 07	201-205	Jose
16 NOV 07	206-210	Jose
17 NOV 07	211-216	Jose
18 NOV 07	217-221	Jose
19 Nov. 07	222-231	Jose
20 Nov. 07	232-241	Jose
27 Nov. 07	242-253	Jose
29 Nov. 07	254-272	Jose
30 Nov 07	273-277	Jose
03 DEC 07	278-290	
04 DEC 07	291-300	Jose
05 DEC 07	301-313	Jose
06 DEC 07	314-	Jose

APPENDIX F-5

TENSIOMETER CALIBRATION

DEMTECH Services Inc.

Thermoplastic welding and testing equipment for the geosynthetics industry

CALIBRATION CERTIFICATE

		110 Volt	X
Customer Name:	Comanco	220 Volt	
Unit Make & Model Number:	Ultitest 500/B	Lbs.	X
Tensiometer Serial Number:	72-05	Kg.	

Device Calibrated:	S-Type load cell	Calibration Apparatus:			
Range:	0 - 500 lbs. Tension	Dead Weight system w/			
Model No:	SM-500	Fluke Model 187 Multimeter			
Serial No:	47176				
		W1	2	R1	N/A
Readout Model No:	5204A-J01134-00	W2	152	R2	N/A
Readout Serial No:	01220082-4	W3	302	R3	N/A
Channel No:	N/A				

Indicator reading with no load: 0

Applied Force lbs.	Output (mv):	Display reading:	Deviation Error:
2	20.219	2	0.00
52	23.304	52	0.00
102	26.394	102	0.00
152	29.477	152	0.00
202	32.565	202	0.00
252	35.647	252	0.00
302	38.734	302	0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F

Exitation Voltage: 10 V DC

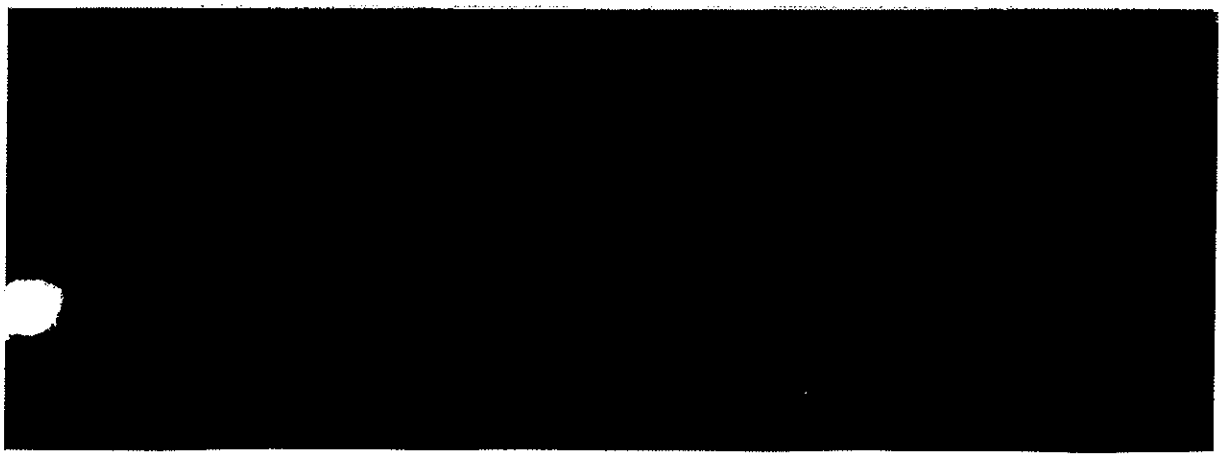
Scale Factor (1):	N/A	Offset (1):	N/A
Scale Factor (2):	N/A	Offset (2):	N/A
Brake point:	N/A	Calibration Check #	N/A

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: Readout and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated readouts and load cells are not interchangeable.

Calibrated by: J.G. Date: 02/27/07

Toll Free: (888) 324-9353 • Office: (530) 621-3200 • Fax: (530) 621-0150
P.O. Box 2165, Placerville, CA 95667 • 6414 Capitol Ave., Diamond Springs, CA 95619
www.demtech.com



APPENDIX F-6

TRIAL SEAM LOGS

APPENDIX F-6A

FUSION WELD

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wagner Multitest 500lb SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
1	10/9/07	14:15	75-37	G.G.		800	4.0	95 109	144	/			BB
								100 124	157	/			BB
								116 118	160	/			BB
								112 117	163	/			BB
2	10/9/07	14:16	75200905	M.G.		800	4.0	107 110	144	/			BB
								108 114	162	/			BB
								126 127	155	/			BB
								127 134	166	/			BB
3	10/9/07	14:22	75-26	R.R.		800	7.0	121 119	141	/			BB
								111 108	141	/			BB
								108 109	141	/			BB
								113 108	133	/			BB
4	10/10/07	09:00	75-37	G.G.		800	4.0	126 128	164	/			MB
								101 119	167	/			BB
								123 136	170	/			BB
								121 135	169	/			BB
5	10/10/07	09:00	75-26	RR		820	7.0	129 133	163	/			BB
								133 127	169	/			BB
								120 127	159	/			BB
								137 136	109	/			BB
6	10/10/07	07:52	75-25	MG		820	4.0	138 134	157	/			BB
								134 127	159	/			BB
								125 129	158	/			BB
								127 128	160	/			BB
7	10/10/07	13:20	75-37	G.G.		800	4.0	119 114	130	/			BB
								118 113	121	/			BB
								119 116	131	/			BB
								127 117	130	/			BB
8	10/10/07	13:25	75-26	R.R.		820	7.0	120 119	136	/			BB
								118 116	135	/			BB
								121 118	132	/			BB
								126 116	139	/			BB

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Ultitest 5001s SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
9	10/11/07	07:41	75-37	G.G.		800	4.0	139	200	✓			BS
								135					
								130	185	✓			BS
								139					
								152	196	✓			BS
								138					
								128	188	✓			BS
								141					
10	10/11/07	07:93	75-26	R.R.		820	6.5	136	171	✓			BS
								142					
								138	172	✓			BS
								139					
								140	173	✓			BS
								138					
								125	170	✓			BS
								145					
11	10/11/07	11:44	75-25	G.G.		800	3.5	117	141	✓			BS
								119					
								129	139	✓			BS
								147					
								134	130	✓			BS
								119					
								126	126	✓			BS
								124					
12	10/11/07	07:27	75-25	G.G.		800	4.0	113	182	✓			BS
								129					
								115	178	✓			BS
								139					
								137	177	✓			BS
								137					
								130	183	✓			BS
								153					
13	10/12/07	10:29	75-26	R.R.		820	6.5	141	183	✓			BS
								138					
								140	171	✓			BS
								114					
								143	187	✓			BS
								156					
								151	181	✓			BS
								137					
14	10/15/07	07:47	75-26	R.R.		820	7.0	146	187	✓			BS
								146					
								129	189	✓			BS
								151					
								134	186	✓			BS
								123					
								155	196	✓			BS
								139					
15	10/15/07	07:54	75-25	M.G.		800	4.0	141	187	✓			BS
								136					
								148	188	✓			BS
								139					
								147	188	✓			BS
								140					
								141	189	✓			BS
								138					
16	10/15/07	08:00	75-37	G.G.		800	4.0	130	174	✓			BS
								142					
								130	180	✓			BS
								123					
								120	182	✓			BS
								142					
								142	185	✓			BS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wagner Ultrex 500lb SERIAL NO.: 960220

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
17	10/15/07	11:50	75-31	G.G.		800	4.0	109 113	159	/			BS
								114 115	159	/			BS
								112 116	168	/			BS
								110 111	175	/			BS
18	10/15/07	14:33	75-25	M.G.		800	4.0	103 120	154	/			BS
								118 121	157	/			BS
								110 123	163	/			BS
								124 123	162	/			BS
19	10/16/07	07:49	75-31	G.G.		800	4.0	134 134	167	/			BS
								135 131	178	/			BS
								143 145	182	/			BS
								140 142	170	/			BS
20	10/16	07:52	75-26	R.R.		850	7.5	138 134	174	/			BS
								132 139	175	/			BS
								135 137	172	/			BS
								141 141	173	/			BS
21	10/16	07:57	75-25	M.G.		800	4.0	132 123	180	/			BS
								127 124	170	/			BS
								143 128	166	/			BS
								127 121	173	/			BS
22	10/17/07	07:33	75-25	M.G.		800	4.0	140 139	190	/			BS
								145 134	189	/			BS
								145 129	181	/			BS
								139 137	165	/			BS
23		07:45	75-31	G.G.		800	4.0	139 139	180	/			BS
								145 143	176	/			BS
								139 144	197	/			BS
								142 138	158	/			BS
24		07:48	75-26	R.R.		850	7.5	137 137	189	/			BS
								137 135	178	/			BS
								139 139	170	/			BS
								139 138	168	/			BS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: (w)egeners Whitest 500lb SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
25	10/18	07:49	75-31	G.G.		830	4.0	140	186	✓			RR
								144					
								130	190	✓			RR
								136					
								132	189	✓			RR
								135					
								124	190	✓			RR
								131					
26	10/18	08:00	75-26	R.R.		850	7.0	139	186	✓			RR
								144					
								131	127	✓			RR
								140					
								135	186	✓			RR
								131					
								126	188	✓			RR
								138					
27	10/18	07:54	75-25	M.G.		800	4.0	136	189	✓			RR
								143					
								130	184	✓			RR
								148					
								134	189	✓			RR
								147					
								140	194	✓			RR
28	10/19	07:36	75-31	G.G.		830	4.0	140	184	✓			RR
								148					
								134	187	✓			RR
								140					
								130	191	✓			RR
								153					
								129	189	✓			RR
29	10/19	07:45	75-26	R.R.		830	7.0	159					
								147	187	✓			RR
								141					
								138	176	✓			RR
								151					
								158	180	✓			RR
								156					
								148	180	✓			RR
30	10/19	08:01	75-25	M.G.		830	4.0	155					
								144	177	✓			RR
								159					
								143	181	✓			RR
								145					
								145	182	✓			RR
								133					
								145	184	✓			RR
31	10/20	07:29	75-31	G.G.		830	4.0	140	175	✓			RR
								148					
								146	169	✓			RR
								145					
								138	169	✓			RR
								137					
								144	158	✓			RR
32	10/20	07:35	75-26	R.R.		820	7.0	144					
								140	179	✓			RR
								138	169	✓			RR
								130					
								138	169	✓			RR
								128					
								138	158	✓			RR

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Ultitest 5000 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
33	10/20	07:40	75-25	M.G.		830	4.0	129	177	✓			RR
								134					
								139	178	✓			RR
								138					
								139	173	✓			RR
								142					
								136	176	✓			RR
34	10/22	07:41	75-26	R.R.		820	6.5	156	199	✓			RR
								146					
								153					
								156	208	✓			RR
								160					
								145	199	✓			RR
								139					
								143	198	✓			RR
35	10/22	07:45	75-25	M.G.		830	3.5	156	205	✓			RR
								159					
								164	201	✓			RR
								148					
								158	214	✓			RR
								164					
								162	210	✓			RR
36	10/22	08:25	75-31	G.G.		830	4.0	139					
								139	184	✓			RR
								162	194	✓			RR
								137					
								136	197	✓			RR
								137					
								139	206	✓			RR
37	10/22	13:29	75-25	M.G.		830	4.0	134					
								126	166	✓			RR
								130					
								126	166	✓			RR
								124					
								130	171	✓			RR
								129					
								127	166	✓			RR
38	10/22	13:30	75-26	R.R.		820	7.5	135	166	✓			RR
								124					
								119	147	✓			RR
								133					
								133	168	✓			RR
								124					
								127	164	✓			RR
39	10/22	13:50	75-31	G.G.		830	4.0	136					
								152	163	✓			RR
								137					
								151	169	✓			RR
								139					
								125	169	✓			RR
								140					
								129	166	✓			RR
40	10/22	14:30	75-50	J.C.		830		124					
								134	157	✓			RR
								125					
								133	155	✓			RR
								138					
								133	156	✓			RR
								138					
								133	161	✓			RR

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wagner Whitest 500/B SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
41	10/23	12:06	75-31	G.G.		830	4.0	137 132	159	✓			RS
								135 130	161	✓			RS
								135 129	155	✓			RS
								117 111	157	✓			RS
42	10/23	12:00	75-26	R.R		830	8.0	129 127	151	✓			RS
								127 134	157	✓			RS
								130 130	155	✓			RS
								106 133	156	✓			RS
43	10/23	11:59	75-25	M.G.		830	4.0	134 122	160	✓			RS
								129 123	154	✓			RS
								135 125	157	✓			RS
								133 129	156	✓			RS
44	10/23	14:00	75-50	D.C.		830	4.9	130 124	151	✓			RS
								126 123	151	✓			RS
								127 123	150	✓			RS
								120 120	146	✓			RS
45	10/25	13:30	75-25	M.G.		830	4.0	128 129	149	✓			RS
								124 134	150	✓			RS
								126 133	153	✓			RS
								123 130	151	✓			RS
46	10/25	13:45	75-31	G.G.		830	4.0	129 129	159	✓			RS
								121 129	156	✓			RS
								114 128	153	✓			RS
								122 126	151	✓			RS
47	10/25	13:55	75-50	D.G.		830	4.5	139 133	150	✓			RS
								137 134	155	✓			RS
								125 131	147	✓			RS
								138 132	136	✓			RS
48	10/25	09:52	75-26	R.R		830	7.0	140 142	172	✓			RS
								137 132	173	✓			RS
								137 124	160	✓			RS
								132 127	168	✓			RS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Weaver Ultitest 500lb SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
49	10/27	09:45	75-31	G.G.		830	4.0	130	173	✓			KS
								120	162	✓			KS
								135	165	✓			KS
								136	168	✓			KS
50	10/27	09:58	75-25	M.G.		850	4.0	121	159	✓			KS
								132	172	✓			KS
								133	168	✓			KS
								135	166	✓			KS
51	10/30	08:10	75-25	M.G.		830	4.0	136	171	✓			KS
								144	173	✓			KS
								151	179	✓			KS
								139	178	✓			KS
52	10/30	08:35	75-31	D.G.		800	4.0	133	175	✓			KS
								141	177	✓			KS
								141	178	✓			KS
								132	181	✓			KS
53	10/30	09:00	75-31	G.G.		830	4.0	130	176	✓			KS
								131	180	✓			KS
								134	182	✓			KS
								136	177	✓			KS
54	10/30	09:05	75-26	R.R.		830	7.5	129	165	✓			KS
								129	172	✓			KS
								128	171	✓			KS
								132	175	✓			KS
55	10/31	08:30	75-31	G.G.		830	4.0	126	174	✓			KS
								129	175	✓			KS
								123	169	✓			KS
								128	173	✓			KS
56	10/31	08:30	75-25	M.G.		830	4.0	125	181	✓			KS
								127	173	✓			KS
								124	169	✓			KS
								120	171	✓			KS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wraener Ultratest 2000 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
57	10/31	08:35	75-26	R.R.		830	7.0	130 126	177	/			RS
"	"	"	"	"		"	"	138 133	177	/			RS
"	"	"	"	"		"	"	131 135	181	/			RS
"	"	"	"	"		"	"	114 127	170	/			RS
58	10/31	08:38	75-37	D.C.		800	4.0	139 137	176	/			RS
"	"	"	"	"		"	"	139 140	180	/			RS
"	"	"	"	"		"	"	144 131	174	/			RS
"	"	"	"	"		"	"	143 136	175	/			RS
59	10/31	05:00	75-31	G.G.		830	4.0	122 121	143	/			RS
"	"	"	"	"		"	"	127 125	153	/			RS
"	"	"	"	"		"	"	128 121	151	/			RS
"	"	"	"	"		"	"	131 134	150	/			RS
60	10/31	15:05	75-37	D.C.		820	4.0	126 123	150	/			RS
"	"	"	"	"		"	"	121 123	151	/			RS
"	"	"	"	"		"	"	120 118	151	/			RS
"	"	"	"	"		"	"	124 111	153	/			RS
61	11/1	07:41	75-31	G.G.		830	4.0	130 130	186	/			RS
"	"	"	"	"		"	"	125 131	199	/			RS
"	"	"	"	"		"	"	129 132	191	/			RS
"	"	"	"	"		"	"	122 125	198	/			RS
62	11/1	08:16	75-25	M.G.		830	4.0	139 134	186	/			RS
"	"	"	"	"		"	"	130 132	180	/			RS
"	"	"	"	"		"	"	123 121	182	/			RS
"	"	"	"	"		"	"	136 137	188	/			RS
63	11/2	09:48	75-25	M.G.		830	4.0	130 140	167	/			RS
"	"	"	"	"		"	"	133 135	193	/			RS
"	"	"	"	"		"	"	131 130	182	/			RS
"	"	"	"	"		"	"	134 127	180	/			RS
64	11/2	11:20	75-31	G.G.		830	4.0	134 121	154	/			RS
"	"	"	"	"		"	"	120 122	161	/			RS
"	"	"	"	"		"	"	111 127	159	/			RS
								129 134	162	/			RS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitest 560/3 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
65	11/2	13:45	75-26	R.R.		830	7.5	121	159	/			R
								124	158	/			R
								130	151	/			R
								127	157	/			R
66	11/2	14:20	75-25	M.G.		830	4.0	125	153	/			R
								127	154	/			R
								130	151	/			R
								124	157	/			R
67	11/3	08:43	75-25	G.G.		830	4.0	133	189	/			R
								123	112	/			R
								129	183	/			R
								137	181	/			R
68	11/5	08:00	75-26	R.R.		830	7.0	128	169	/			R
								135	183	/			R
								138	174	/			R
								141	182	/			R
69	11/5	13:50	75-25	M.G.		830	4.0	126	164	/			R
								123	166	/			R
								111	167	/			R
								111	161	/			R
70	11/5	16:10	75-31	G.G.		830	4.0	113	170	/			R
								119	175	/			R
								119	177	/			R
								118	172	/			R
71	11/6	07:14	75-25	M.G.		830	4.0	130	172				
								128	182				
								129	174				
								128	187				
72	11/7	08:50	75-37	D.G.		830	6.5	129	183	/			R
								131	180				R
								137	188	/			R
								130	183	/			R

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitaker 580 IS SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
73	11/7	08:53	75-26	R.R.		830°	4.0	149 135	166	/			AS
								145 139	167	/			AS
								130 137	165	/			AS
								130 135	170	/			AS
74	11/7	09:20	75-31	G.G.		830°	4.0	125 119	155	/			BS
								116 118	150	/			BS
								137 137	157	/			BS
								143 135	158	/			BS
75	11/7	14:05	75-57	P.C.		830	6.5	138 132	137	/			AS
								118 127	154	/			AS
								122 121	146	/			AS
								129 120	157	/			AS
76	11/7	14:00	75-26	R.R.		830	7.5	116 129	146	/			AS
								131 121	151	/			AS
								120 123	152	/			AS
								122 126	148	/			AS
77	11/8	06:54	75-31	G.G.		830	4.0	129 131	169	/			AS
								133 137	187	/			AS
								145 135	190	/			AS
								133 134	167	/			AS
78	11/9	09:15	75-31	G.G.		850	4.0	110 125	159	/			BS
								142 128	165	/			BS
								128 124	161	/			BS
								122 137	170	/			BS
79	11/9	09:09	75-25	M.G.		830	4.0	128 129	180	/			AS
								127 126	181	/			AS
								111 125	184	/			AS
								133 126	186	/			AS
80	11/9	09:20	75-26	R.R.		830	7.5	127 137	185	/			BS
								128 138	186	/			BS
								119 134	185	/			BS
								129 142	189	/			BS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitest SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
S1	11/9	10:40	75-37	D.G.		830	6.0	135 121	169	/			
								125 136	164	/			
								131 121	169	/			
								116 121	166	/			
S2	11/9	13:15	75-37	D.G.		830	6.0	110 110	155	/			
								122 121	157	/			
								119 126	156	/			
								119 125	155	/			
S3	11/9	13:18	75-25	M.G.		830	4.0	125 134	153	/			
								129 126	153	/			
								125 128	153	/			
								129 137	154	/			
S4	11/9	13:25	75-26	R.R.		830	7.5	125 131	157	/			
								137 127	161	/			
								130 122	160	/			
								140 129	156	/			
S5	11/10	06:45	75-25	M.G.		830	3.5	130 121	175	/			
								127 123	180	/			
								128 129	188	/			
								129 140	191	/			
S6	11/12	08:10	75-31	G.G.		830	4.0	134 138	169	/			
								133 128	171	/			
								124 122	163	/			
								131 128	170	/			
S7	11/12	09:52	75-25	M.G.		830	3.5	135 125	173	/			
								133 122	175	/			
								134 120	174	/			
								135 153	177	/			
S8	11/12	08:55	75-26	R.R.		830	6.0	136 139	179	/			
								141 125	176	/			
								136 131	178	/			
								138 146	171	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

GeosynteC consultants

DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Wittest 300/B SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
89	11/12	09:10	75-37	D.C.		830	6.0	130	170	/			
〃	〃	〃	〃	〃		〃	〃	133	173	/			
〃	〃	〃	〃	〃		〃	〃	116	179	/			
〃	〃	〃	〃	〃		〃	〃	117	182	/			
90	11/12	13:31	75-25	M.G.		830	4.0	135	146	/			
〃	〃	〃	〃	〃		〃	〃	111	167	/			
〃	〃	〃	〃	〃		〃	〃	131	152	/			
〃	〃	〃	〃	〃		〃	〃	132	153	/			
91	11/12	14:05	75-26	R.R.		830	7.5	135	152	/			
〃	〃	〃	〃	〃		〃	〃	132	157	/			
〃	〃	〃	〃	〃		〃	〃	131	151	/			
92	11/12	14:10	75-31	A.G.		830	4.0	131	164	/			
〃	〃	〃	〃	〃		〃	〃	109	156	/			
〃	〃	〃	〃	〃		〃	〃	120	151	/			
93	11/12	14:15	75-37	D.C.		830	6.0	131	153	/			
〃	〃	〃	〃	〃		〃	〃	106	157	/			
〃	〃	〃	〃	〃		〃	〃	127	157	/			
94	11/13	06:49	75-25	M.G.		830	3.5	138	151	/			
〃	〃	〃	〃	〃		〃	〃	129	158	/			
〃	〃	〃	〃	〃		〃	〃	124	192	/			
〃	〃	〃	〃	〃		〃	〃	140	191	/			
95	11/14	09:10	75-31	G.G.		830	4.0	145	193	/			
〃	〃	〃	〃	〃		〃	〃	127	197	/			
〃	〃	〃	〃	〃		〃	〃	136	158	/			
〃	〃	〃	〃	〃		〃	〃	124	165	/			
96	11/14	09:14	75-25	M.G.		830	4.0	133	168	/			
〃	〃	〃	〃	〃		〃	〃	130	193	/			
〃	〃	〃	〃	〃		〃	〃	133	152	/			
〃	〃	〃	〃	〃		〃	〃	129	153	/			
〃	〃	〃	〃	〃		〃	〃	113	150	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitley 500/5 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
97	11/14	09:17	75-37	D.C.		830	6.0	129 126	159	/			
"	"	"	"	"		"	"	118 137	156	/			
"	"	"	"	"		"	"	126 125	161	/			
"	"	"	"	"		"	"	121 141	156	/			
98	11/14	09:30	75-26	R.R.		850	7.5	123 123	154	/			
"	"	"	"	"		"	"	130 130	154	/			
"	"	"	"	"		"	"	128 122	155	/			
"	"	"	"	"		"	"	135 132	157	/			
99	11/14	13:46	75-25	M.G.		830	4.0	126 133	159	/			
"	"	"	"	"		"	"	127 135	157	/			
"	"	"	"	"		"	"	126 136	156	/			
"	"	"	"	"		"	"	128 124	161	/			
100	11/14	14:00	75-31	G.G.		830	4.0	136 131	149	/			
"	"	"	"	"		"	"	139 130	163	/			
"	"	"	"	"		"	"	140 130	152	/			
"	"	"	"	"		"	"	130 137	161	/			
101	11/14	14:05	75-37	D.C.		830	6.5	117 126	158	/			
"	"	"	"	"		"	"	130 117	162	/			
"	"	"	"	"		"	"	129 130	149	/			
"	"	"	"	"		"	"	132 125	156	/			
102	11/15	07:17	75-26	R.R.		830	7.0	150 147	190	/			
"	"	"	"	"		"	"	143 134	187	/			
"	"	"	"	"		"	"	138 136	180	/			
"	"	"	"	"		"	"	133 133	185	/			
103	11/15	13:50	75-26	R.R.		850	7.5	116 115	145	/			
"	"	"	"	"		"	"	127 124	143	/			
"	"	"	"	"		"	"	120 123	142	/			
"	"	"	"	"		"	"	131 120	153	/			
104	11/15	13:50	75-31	G.G.		830	4.0	129 127	160	/			
"	"	"	"	"		"	"	132 126	166	/			
"	"	"	"	"		"	"	130 126	160	/			
"	"	"	"	"		"	"	133 132	159	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: WEDGE UTITEST 5601B SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
105	11/15	1346	75-25	MG		830	3.5	117 127	130	/			WW
								134 127	133	/			WW
								123 119	141	/			WW
								125 124	135	/			WW
106	11/15	1345	75-37	DC		830	6.5	116 110	166	/			WW
								129 112	167	/			WW
								113 110	166	/			WW
								110 114	167	/			WW
107	11/16	1310	75-31	GG		830	4.0	118 119	157	/			WW
								115 131	155	/			WW
								125 123	153	/			WW
								140 123	156	/			WW
108	11/16	1315	75-37	DC		830	6.5	134 130	160	/			WW
								117 135	162	/			WW
								130 138	155	/			WW
								125 128	157	/			WW
109	11/16	1314	75-25	MG		830	3.5	127 121	152	/			WW
								115 125	155	/			WW
								119 122	154	/			WW
								129 124	152	/			WW
110	11/16	1320	75-26	RR		830	7.5	119 134	153	/			WW
								129 119	162	/			WW
								130 120	167	/			WW
								126 130	159	/			WW
111	11/17	1330	75-31	GG		830	4.0	116 120	157	/			WW
								120 117	156	/			WW
								122 117	149	/			WW
								120 120	156	/			WW
112	11/17	1330	75-25	MG		830	3.5	130 124	151	/			WW
								123 129	151	/			WW
								126 111	158	/			WW
								121 124	153	/			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: WEBER (METITEST 5000) SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
113	11/17	1345	75-26	RR		830	7.5	126 128	155	X			WW
								124 129	156	X			WW
								121 122	159	X			WW
								126 130	155	X			WW
114	11/17	1345	75-37	DC		830	6.0	128 129	155	X			WW
								147 134	155	X			WW
								125 130	160	X			WW
								127 132	157	X			WW
115	11/17	1500	75-50	EV		830	4.0	128 130	150	X			WW
								126 127	156	X			WW
								128 135	155	X			WW
								135 120	153	X			WW
116	11/18	1211	75-31	GG		830	4.0	111 107	166	X			WW
								111 110	164	X			WW
								115 116	160	X			WW
								118 114	162	X			WW
117	11/18	1215	75-25	MG		830	3.5	165 126	168	X			WW
								117 120	165	X			WW
								121 110	159	X			WW
								118 109	162	X			WW
118	11/18	1220	75-26	RR		830	7.0	121 118	159	X			WW
								111 124	158	X			WW
								122 125	155	X			WW
								110 121	163	X			WW
119	11/18	1230	75-37	DC		830	6.0	113 110	169	X			WW
								111 115	170	X			WW
								109 111	168	X			WW
								118 116	170	X			WW
120	11/19	1332	75-25	MG		830	3.5	118 111	148	X			WW
								118 105	143	X			WW
								121 114	145	X			WW
								120 113	141	X			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wedgnar Ultitest 6000 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
121	11/19	1345	75-26	RR		830	7.5	125 116	146	X			WW
								126 120	152	X			WW
								126 124	154	X			WW
								124 120	142	X			WW
122	11/19	1350	75-31	GG		830	4.0	114 128	155	X			WW
								139 124	153	X			WW
								124 120	142	X			WW
								116	151	X			WW
123	11/19	1355	75-37	DC		830	6.0	119 127	146	X			WW
								133 114	146	X			WW
								126 111	153	X			WW
								119 119	153	X			WW
124	11/20	09:22	75-25	M.G.		830	3.5	129 135	177	X			BR
								120 120	185	X			BR
								135 122	173	X			BR
								134 125	177	X			BR
125	11/20	09:30	75-31	G.G.		830	4.0	132 126	174	X			BR
								133 129	176	X			BR
								119 121	173	X			BR
								133 125	176	X			BR
126	11/20	10:30	75-26	R.R.		830	7.5	124 122	172	X			BR
								122 126	172	X			BR
								122 128	175	X			BR
								104 129	176	X			BR
127	11/20	14:06	75-25	M.G.		830	3.5	126 127	158	X			BR
								121 120	157	X			BR
								127 117	159	X			BR
								125 126	158	X			BR
128	11/27	10:58	75-25	M.G.		830	3.5	130 133	180	X			BR
								129 129	177	X			BR
								126 128	186	X			BR
								121 129	194	X			BR

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitest 5208 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
129	11/27	11:00	75-37	D.C.		830	6.0	188 183	199	✓			
								136 117	183	✓			
								124 128	192	✓			
								132 117	189	✓			
130	11/27	11:16	75-26	R.R.		830	7.0	133 134	192	✓			
								137 139	195	✓			
								133 128	191	✓			
								137 130	194	✓			
131	11/27	11:19	75-37	G.G.		830	9.0	129 142	192	✓			
								131 139	194	✓			
								129 130	191	✓			
								137 132	194	✓			
132	11/29	10:02	75-31	G.G.		830	4.0	130 137	203	✓			
								132 130	198	✓			
								126 133	197	✓			
								134 134	201	✓			
133	11/29	10:12	75-25	M.G.		830	3.5	123 124	186	✓			
								140 132	193	✓			
								142 137	195	✓			
								136 129	191	✓			
134	11/29	11:06	75-26	R.R.		830	7.5	136 140	196	✓			
								140 142	198	✓			
								132 134	200	✓			
								133 130	201	✓			
135	11/29	11:12	75-37	D.C.		830	6.0	145 127	199	✓			
								148 145	197	✓			
								151 146	202	✓			
								138 136	200	✓			
136	12/03	13:27	75-25	M.G.		830	3.5	129 126	163	✓			
								138 131	155	✓			
								141 142	161	✓			
								135 137	157	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: L Jeager WithHost 5005 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
137	12/03	13:33	75-9	G.G.		830	4.0	118 / 116	162	✓			BB
								134 / 129	157	✓			BB
								133 / 129	163	✓			BB
								117 / 118	158	✓			BB
138	12/03	13:35	75-26	R.R.		830	7.5	134 / 130	174	✓			BB
								131 / 129	172	✓			BB
								133 / 130	170	✓			BB
								128 / 132	168	✓			BB
139	12/03	13:39	75-37	P.C.		830	6.0	124 / 127	181	✓			BB
								128 / 132	178	✓			BB
								141 / 135	174	✓			BB
								130 / 141	175	✓			BB
140	12/04	10:50	75-31	G.G.		830	4.0	133 / 129	171	✓			BB
								116 / 117	180	✓			BB
								137 / 127	179	✓			BB
								140 / 128	187	✓			BB
141	12/04	10:54	75-25	M.G.		830	6.0	134 / 134	179	✓			BB
								133 / 116	175	✓			BB
								141 / 141	180	✓			BB
								132 / 133	183	✓			BB
142	12/04	11:10	75-37	P.C.		830	6.0	147 / 131	186	✓			BB
								130 / 137	183	✓			BB
								131 / 129	181	✓			BB
								150 / 132	178	✓			BB
143	12/04	11:15	75-26	R.R.		830	7.5	146 / 130	193	✓			BB
								129 / 132	191	✓			BB
								124 / 129	189	✓			BB
								133 / 131	185	✓			BB
144	12/05	13:05	75-25	M.G.		830	3.5	141 / 140	190	✓			BB
								145 / 140	192	✓			BB
								135 / 136	189	✓			BB
								142 / 143	193	✓			BB

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitest 500B SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
145	12/05	13:10	75-26	R.R.		830	7.0	189 143	196	✓			RR
								121 140	191	✓			RR
								146 139	197	✓			RR
								149 136	190	✓			RR
146	12/05	13:14	75-37	D.G.		830	6.0	122 138	190	✓			RR
								141 139	192	✓			RR
								130 129	189	✓			RR
								134 143	193	✓			RR
147	12/05	13:18	75-31	G.G.		830	4.0	136 145	196	✓			RR
								139 137	192	✓			RR
								140 141	191	✓			RR
								149 146	200	✓			RR
148	12/06	13:00	75-31	G.G.		830	4.0	138 131	179	✓			RR
								137 134	181	✓			RR
								139 131	183	✓			RR
								127 129	180	✓			RR
149	12/06	13:05	75-25	M.G.		830	3.5	134 151	185	✓			RR
								136 132	189	✓			RR
								136 130	192	✓			RR
								141 136	184	✓			RR
150	12/06	13:10	75-37	D.G.		830	6.0	138 141	188	✓			RR
								136 143	192	✓			RR
								139 134	189	✓			RR
								120 136	191	✓			RR
151	12/06	13:15	75-26	R.R.		830	7.0	137 140	189	✓			RR
								135 131	188	✓			RR
								146 135	189	✓			RR
								140 148	190	✓			RR

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accura-Lite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
152	4/12	1609	75-53	M.G.		840	5	128 130	165	✓			
								131 149	163	✓			
								126 127	149	✓			
								129 132	161	✓			
								134 131	162	✓			
153	4/12	1610	75-28	R.R.		830	3.5	132 128	170	✓			
								121 126	176	✓			
								128 130	174	✓			
								125 132	160	✓			
								128 143	165	✓			
154	4/16	0830	75-28	G.G.		850	5.5	104 96	161	✓			
								114 108	158	✓			
								110 99	174	✓			
								105 110	169	✓			
								112 108	167	✓			
155	4/18	0750	75-28	G.G.		850	5.5	106 128	174	✓			
								109 110	176	✓			
								99 106	166	✓			
								97 109	167	✓			
156	4/19	0910	75-28	G.G.		850	5.5	120 127	170	✓			
								122 129	168	✓			
								120 118	178	✓			
								116 126	174	✓			
157	4/21	0735	75-28	G.G.		850	5.5	126 132	179	✓			
								141 135	184	✓			
								128 130	191	✓			
								134 129	197	✓			
158	4/24	~~1120~~ 1156	75-28	G.G.		850	5.5	124 126	168				
								121 129					

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accusalite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
159	4/28	0635	75-29	R.G.		830	4	148 126	188	/			RS
								121 116	184	/			RS
								146 136	191	/			RS
								140 152	187	/			RS
160	4/28	0635	75-28	D.C.		850	5.5	156 113	187	/			RS
								158 129	189	/			RS
								124 118	190	/			RS
								123 121	191	/			RS
161	4/28	0640	75-53	A.G.		840	6.5	124 130	194	/			RS
								130 134	196	/			RS
								143 134	191	/			RS
								137 121	187	/			RS
162	4/28	0650	75-50	H.O.		820	3.5	118 126	174	/			RS
								117 122	168	/			RS
								127 118	175	/			RS
								126 122	173	/			RS
163	4/28	1245 1200	75-50	H.O		820	3.5	116 127	165	/			RS
								121 118	170	/			RS
								117 122	172	/			RS
								127 119	168	/			RS
164	4/28	1200	75-28	D.C.		830	6.5	142 119	171	/			RS
								113 111	166	/			RS
								145 117	169	/			RS
								142 135	170	/			RS
165	4/28	1210	75-53	A.G.		840	6.0	116 145	167	/			RS
								129 128	161	/			RS
								121 130	167	/			RS
								124 118	166	/			RS
166	4/28	1325	75-29	R.G.		830	4.5	152 138	153	/			RS
								130 131	156	/			RS
								128 130	149	/			RS
								139 130	151	/			RS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accuratite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
167	4/29	0630	75-29	R.G.		850	4.0	132 130	178	✓			RS
								149 127	175	✓			RS
								116 124	169	✓			RS
								117 121	177	✓			RS
168	4/29	0625	75-53	A.G.		840	4.0	107 100	165	✓			RS
								120 111	172	✓			RS
								120 101	178	✓			RS
								109 111					
								128 102	180	✓			RS
169	4/29	0715	75-50	H.O.		820	3.8	105 98	160	✓			RS
								102 116	157	✓			RS
								120 101	158	✓			RS
								103 111	167	✓			RS
170	4/29	0650	75-28	D.C.		830	3.5	109 128	166	✓			RS
								113 102	168	✓			RS
								106 97	165	✓			RS
								115 116	167	✓			RS
171	4/29	1145	75-28	D.C.		830	4.0	118 122	154	✓			RS
								126 127	157	✓			RS
								122 126	152	✓			RS
								128 120	155	✓			RS
172	4/29	1150	75-29	R.G.		830	4.5	109 116	164	✓			RS
								118 114	162	✓			RS
								116 120	158	✓			RS
								106 111	161	✓			RS
173	4/29	1305	75-50	H.O.		830	4	108 100	157	✓			RS
								106 104	159	✓			RS
								108 112	156	✓			RS
								110 108	155				RS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accutalite Portable Tensiometer SERIAL NO.: 013-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
174	4/29	1150	75-53	A.G.		830	4.0	108 112	157	✓			
								149 144	152	✓			
								148 147	150	✓			
								147 144	153	✓			
175	4/30	0620	75-29	R.G.		830	4.0	129 123	189	✓			
								126 125	193	✓			
								132 141	188	✓			
								130 154	187	✓			
176	4/30	0622	75-53	A.G.		840	4.0	127 154	180	✓			
								137 121	188	✓			
								109 125	179	✓			
								123 145	183	✓			
177	4/30	0636	75-28	D.C.		830	3.5	131 132	183	✓			
								131 140	180	✓			
								122 123	175	✓			
								109 102	181	✓			
178	4/30	0640	75-50	H.O.		830	3.5	115 127	187	✓			
								122 131	183	✓			
								139 143	176	✓			
								129 132	180	✓			
179	5/1	0630	75-28	D.C.		830	3.5	126 130	191	✓			
								121 127	196	✓			
								133 136	189	✓			
								124 130	188	✓			
180	5/1	0725	75-10	R.G.		800	3.0	100 100	155	✓			
								120 108	151	✓			
								140 112	148	✓			
								144 148	146	✓			
181	5/1	0820	75-11	A.G.		800	4.0	135 136	192	✓			
								121 131	190	✓			
								135 132	181	✓			
								131 134	189	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accuratite Portable Tensiometer SERIAL NO.: 913-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
182	5/2	0630	75-28	D.C.		830	3.5	128 136	192	✓			KD
								124 121	187	✓			KS
								126 122	189	✓			KS
								125 120	191	✓			KS
183	5/2	0635	75-11	A.G.		800	3.0	136 132	196	✓			KD
								146 138	194	✓			KD
								07 131	200	✓			KS
								137 140	197	✓			KS
184	5/2	0640	75-03	H.O.		800	3.0	130 130	[illegible]	✓		192	KS
								127 132	[illegible]	✓		194	KS
								127 130	[illegible]	✓		197	KS
								125 129	[illegible]	✓		201	KS
185	5/2	0720	75-10	R.G.		800	3.0	136 127	187	✓			KS
								139 132	183	✓			KS
								136 137	184	✓			KS
								128 119	188	✓			KS
~~186~~	~~5/3~~	~~0650~~	~~75-11~~ 75-03					129 146	190	✓			KS
186	5/3	0630	75-28	D.L.		830	3.5	129 142	193	✓			KS
								112 116	204	✓			KS
								126 123	204	✓			KS
187	5/3	0640	75-11	A.G.		800	3.0	121 137	181	✓			KS
								183 141	194	✓			KS
								152 133	197	✓			KS
								132 133	194	✓			KS
188	5/3	0650	75-10	R.G.		800	3.0	128 130	189	✓			KD
								139 115	191	✓			KS
								120 119	187	✓			KS
								133 116	189	✓			KS
189	5/3	0720	75-03	H.O.		800	3.0	136 136	180	✓			KS
								153 109	186	✓			KS
								130 118	176	✓			KS
								125 162	182	✓			KS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accusplite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
190	5/5	0640	75-10	R.G.		830	3.0	141 158	192	/			
								143 135	196	/			
								118 126	190	/			
								133 124	194	/			
191	5/5	0630	75-28	D.C.		830	3.5	127 140	186	/			
								149 108	174	/			
								106 107	189	/			
								144 117	121	/			
192	5/5	0646	75-11	A.G.		800	3.0	118 124	190	/			
								114 125	179	/			
								123 138	184	/			
								121 117	184	/			
193	5/5	1130	75-10	R.G.		800	3.0	143 153	147	/			
								121 119	152	/			
								124 121	149	/			
								123 126	154	/			
194	5/5	1138	75-28	D.C.		830	4.0	106 103	149	/			
								112 103	151	/			
								109 103	148	/			
								144 140	153	/			
195	5/5	1140	75-11	A.G.		800	3.0	106 108	146	/			
								113 111	147	/			
								108 112	139	/			
								109 114	148	/			
~~196~~	~~5/5~~	~~1330~~	~~75-11~~										
~~197~~	~~5-11~~	~~0630~~	~~75-28~~	~~D.C.~~		~~830~~	~~3~~	~~128~~	~~176~~	~~/~~			~~BB~~
								~~119~~	~~170~~	~~/~~			~~BB~~
								~~144 124~~	~~168~~	~~/~~			~~BB~~
								~~142 110~~	~~174~~	~~/~~			~~BB~~

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accumalite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
195	5/5	1140	75-11	A.G.		800	3.0	106 108	146	/			
								113 111	147	/			
								109 112	139	/			
								109 114	148	/			
196	5/6	0630	75-28	D.C.		830	3.5	128 129	176	/			
								119 119	138	/			
								106 126	168	/			
								142 116	194	/			
197	5/6	0638	75-10	R.G.		830	3.0	125 125	171	/			
								98 128	178	/			
								99 131	164	/			
								124 99	170	/			
198	5/6	0700	75-29	G.G.		850	5.0	113 119	172	/			
								113 113	173	/			
								121 113	169	/			
								126 120	177	/			
199	5/6	0645	75-11	A.G.		800	3.0	124 120	176	/			
								114 122	170	/			
								128 155	188	/			
								130 117	195	/			
200	5/6	1130	75-10	R.G.		830	3.0	113 118	164	/			
								121 126	161	/			
								109 118	156	/			
								124 117	158	/			
201	5/6	1145	75-11	A.G.		800	3.0	124 118	157	/			
								125 124	157	/			
								129 126	154	/			
								141 128	182	/			
~~202~~	5/6	1200	75-28	D.C.		830	4.0						

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.:

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
202	5/6	1200	75:28	D.C.		830	4.0	118	164	/			
								147	161	/			
								134	157	/			
								121	162	/			
203	5/7	0635	75-28	D.C.		830	3.5	149 120	177	/			
								119 126	171	/			
								146 126	159	/			
								109 116	167	/			
204	5/7	0820	75:10	R.G.				141 134	179	/			
								110 117	183	/			
								103 98	175	/			
								114 117	183	/			
205	5/7	0800	75-11	A.G.		800	3.0	112 116	178	/			
								92 97	176	/			
								117 137	168	/			
								130 123	183	/			
206	5/7	1145	75-10	R.G.		825	3.0	114 116	165	/			
								107 110	154	/			
								99 106	157	/			
								112 99	162	/			
207	5/7	1130	75:28	D.C.		830	3.5	107 119	143	/			
								115 115	142	/			
								123 116	144	/			
								109 124	152	/			
208	5/8	0630	75:28	D.C.		830	3.5	127 117	161	/			
								118 118	169	/			
								143 134	146	/			
								123 133	173	/			
209	5/8	0700	75:29	J.C.		840	4.0	124 127	178	/			
								133 127	169	/			
								106 122	166	/			
								148 148	167	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: _____ SHEAR: _____ ☐ ppi ☐ psi

TENSIOMETER DESCRIPTION: _____ SERIAL NO.: _____

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
210	5/8	0715	754-10	R.R.		810	16	119 125	175	✓			
								123 125	164	✓			
								132 153	164	✓			
								143 125	167	✓			
211	5/8	0725	754-11	G.G.		800	13	124 136	169	✓			
								166 135	174	✓			
								120 118	166	✓			
								105 95	179	✓			
212	5/8	0630	75-28	D.C.		830	3.5	117 127	187	✓			
								110 155	188	✓			
								100 111	174	✓			
								129 123	176	✓			
213	5/9	0635	754-11	G.G.		800	13	113 114	186	✓			
								118 129	180	✓			
								118 125	185	✓			
								124 138	183	✓			
214	5/9	0640	754-10	R.R.		810	3.0	115 125	167	✓			
								135 135	184	✓			
								123 125	186	✓			
								128 129	182	✓			
215	5/9	0745	75-29	J.C.		840	4.0	105 124	177	✓			
								161 114	165	✓			
								121 125	173	✓			
								117 127	171	✓			
216	5/9	1130	7528	D.C.		810	6.0	104 107	142	✓			
								107 105	142	✓			
								102 107	145	✓			
								154 112	151	✓			
217	5/9	1200	754-10	R.R.		810	3.0	130 128	144	✓			
								117 120	145	✓			
								123 113	154	✓			
								140 141	148	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accu-Lite Portable Tensiometer SERIAL NO.:

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
218	5/9	1230	754-10	G.G.		810	3.0	100 109	136	/			
								103 101	126	/			
								110 127	150	/			
								97 104	137	/			
219	5/10	0635	75-28	D.C		830	3.5	143 137	178	/			
								126 134	182	/			
								110 124	187	/			
								119 143	191	/			
220	5/12	0630	754-11	G.G.		800	3.0	127 131	177	/			
								129 130	184	/			
								133 128	171	/			
								124 130	182	/			
221	5/12	0635	75-28	D.C.		830	3.5	124 122	179	/			
								145 110	182	/			
								150 128	175	/			
								124 120	191	/			
222	5/12	0640	754-10	R.R.		810	3.0	144 150	171	/			
								139 149	172	/			
								149 146	177	/			
		0650						142 132	172	/			
223	5/14	0720	7528	DC		0800	3.5	137 125	171	/			ML
								129 120	174	/			ML
								126 130	179	/			ML
								111 108	172	/			ML
								125 121	170	/			ML
224	5/14	0740	7540011	GG		800	3.0	124 131	169	/			ML
								121 108	177	/			ML
								120 134	171	/			ML
								127 140	180	/			ML
								124 127	174	/			ML
225	5/14	0740	7540001	RR		810	3.0	125 129	173	/			ML
								136 124	170	/			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.:

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
225	5/14	0740	75400010	RR		810	3.0	109 112	171	/			ML
								121 119	176	/			ML
								121 124	168	/			ML
226	5/14	1355	75400010	RR		810	3.0	128 136	158	/			ML
								131 128	156	/			ML
								128 127	149	/			ML
								119 108	151	/			ML
								117 128	154	/			ML
227	5/14	1330	75.28	DC		830	4.0	121 118	154	/			ML
								116 118	156	/			ML
								114 106	152	/			ML
								112 117	155	/			ML
								116 108	156	/			ML
228	5/14	1350	75400010	GG		800	3.0	119 127	164	/			ML
								135 118	171	/			ML
								128 125	169	/			ML
								103 105	155	/			ML
								106 117	148	/			ML
229	5/15	0645	75400011	GG		800	3.0	131 102	177	/			ML
								137 140	181	/			ML
								131 132	180	/			ML
								126 131	172	/			ML
								126 129	187	/			ML
230	5/15	0640	75.28	DC		830	3.5	116 120	179	/			ML
								119 122	181	/			ML
								111 126	186	/			ML
								121 118	187	/			ML
								127 113	183	/			ML
231	5/15	0715	75400010	RR		810	3.0	136 125	182	/			ML
								132 127	179	/			ML
								104 109	194	/			ML
								122 120	185	/			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.:

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
231	5/15	0715	75400010	RR		810	3.0	101 124	188	/			ML
~~232~~	~~5/16~~	~~1100~~	~~75-28~~	~~DC~~		~~830~~	~~3.5~~						
232	5/16	0630	75-28	DC		830	3.5	136 156	191	/			
								137 122	193	/			
								153 140	197	/			
								143 147	203	/			
								148 139	192	/			
233	5/16	0645	75210001	GG		800	3.0	121 134	191	/			
								103 122	183	/			
								108 134	203	/			
								113 129	182	/			
(234)	(5/16)							121 119	194	/			
		0630	75400010	RR		810	3.0	147 139	197	/			
								117 131	193	/			
								120 132	191	/			
								139 129	186	/			
								127 123	190	/			
235	6/4	1300	75-28	DC	S/T	830°	4	122 126	165	/			WW
								124 116	171	/			WW
								125 123	168	/			WW
								121 126	170	/			WW
								120 119	167	/			WW
236	6/4	1300	75-29	GG	S/T	830°	5.5	108 104	158	/			WW
								114 109	161	/			WW
								105 124	163	/			WW
								108 112	160	/			WW
								115 127	159	/			WW
237	6/11	0900	75-28	DC	S/S	830°	3.5	140 133	168	/			WW
								126 143	161	/			WW
								126 129	166	/			WW
								133 122	162	/			WW
								125 121	160	/			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accuirra - Lite tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
238	6/11	0900	75-28	DG	S/T	830	3.5	140 131	167	✓			WW
								137 123	162	✓			WW
								135 140	160	✓			WW
								140 120	167	✓			WW
								138 111	163	✓			WW
239	6/11	0930	75-29	RR	S/S	830	3.5	133 108	169	✓			WW
								113 118	166	✓			WW
								97 107	169	✓			WW
								124 101	162	✓			WW
								104 105	163	✓			WW
240	6/11	0935	75-29	RR	S/T	830	3.5	132 108	171	✓			WW
								142 119	163	✓			WW
								121 143	162	✓			WW
								138 147	167	✓			WW
								132 135	162	✓			WW
~~241~~	~~6/11~~	~~1035~~	~~75-28~~ WW	~~DG~~	~~S/S~~								
241	6/12	0630	75-28	DL	S/S	850	3.5	135 140	178	✓			RS
								141 124	181	✓			RS
								139 161	185	✓			RS
								139 146	187	✓			RS
242	6/12	1120	75-29	DL	S/S	850	3.5	132 121	169	✓			RS
								123 120	163	✓			RS
								119 117	161	✓			RS
								116 119	167	✓			RS
243	6/12	1125	754.10	RR	S/S	850	3 hrs	126 121	163	✓			RS
								127 132	158	✓			RS
								131 124	153	✓			RS
								119 125	157	✓			RS
244	6/12	1157	75-28	MG	S/S	850	4.0	147 142	147	✓			RS
								149 144	146	✓			RS
								125 147	147	✓			RS
								157 121	148	✓			RS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accumulite Portable Tensiometer SERIAL NO.: 8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
245	6/13	0945	75:28	M.G.	S/S	830	4	118 119	160	✓			BB
								117 111	162	✓			BB
								125 129	159	✓			BB
								121 127	161	✓			BB
246	6/13	0950	754:10	RR	S/S	830	3	121 127	157	✓			BB
								116 118	158	✓			BB
								105 114	155	✓			BB
								112 113	154	✓			BB
247	6/13	1410	75:29	DC	S/S	830	4.5	103 99	142	✓			BB
								99 96	153	✓			BB
								93 98	149	✓			BB
								96 99	154	✓			BB
248	6/13	1500	754:10	RR	S/S	830	3	124 120	147	✓			BB
								118 127	151	✓			BB
								125 121	144	✓			BB
						830		118 129	152	✓			BB
249	6/13	1505	75:28	MG	S/S	[illegible]	4.5	114 126	147	✓			BB
								128 115	151	✓			BB
								116 120	146	✓			BB
								139 127	151	✓			BB
250	6/14	0640	75:29	DC	S/S	830	4	132 142	149	✓			AA
								136 124	153	✓			AA
								129 126	156	✓			AA
								121 128	150	✓			AA
251	6/17	0700	7529	AC	S/S	830	4.0	147 134	159	✓			BB
								123 121	163	✓			BB
								132 128	148	✓			BB
								127 141	153	✓			BB
252	6/17	0705	754:10	RR	S/S	830	5.0	129 144	156	✓			BB
								118 132	149	✓			BB
								129 147	164	✓			BB
								119 128	159	✓			BB

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.: 8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
253	6/17	0711	75:28	GG	S/S	850	5.0	114 113	153	✓			
								121 124	149	✓			
								133 128	164	✓			
								147 130	159	✓			
254	6/17	1340	754010	RR	S/S	830°	3.0	121 132	146	✓			
								118 133	151	✓			
								124 130	139	✓			
255	6/17	1345	75:28	GG	S/S	850	5.0	121 121	132	✓			
								118 115	132	✓			
								121 117	129	✓			
			75:29	PC				119 119	128	✓			
256	6/17	1400	~~75:28~~	~~GG~~	S/S	850	3.0	130 123	151	✓			
								121 124	139	✓			
								118 122	128	✓			
								119 117	139	✓			
								121 130	143	✓			
257	6/18	0650	754010	RR	S/S	830	3.0	118 128	167	✓			
								121 109	166	✓			
								140 120	161	✓			
								121 124	168	✓			
258	6/18	0630	75:29	PC	S/S	830	4.0	100 109	164	✓			
								108 105	169	✓			
								119 109	143	✓			
								124 116	170	✓			
259	6/18	0710	7535	GG	S/S	830	5.0	111 130	161	✓			
								94 114	169	✓			
								121 120	161	✓			
								119 124	158	✓			
260	6/18	0805	75625	PC	S/S	825	4.0	110 117	157	✓			
								105 114	159	✓			
								117 118	157	✓			
								118 100	157	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.: 8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
261	6/18	1350	75:35	GG	S/S	830	5.0	107 117	147	✓			
								114 109	88	✓			
								117 121	143	✓			
								116 120	147	✓			
262	6/18	1305	754010	RR	S/S	830	3.0	126 118	138	✓			
								123 128	143	✓			
								127 118	142	✓			
								127 135	139	✓			
263	6/18	1340	75025	PC	S/S	825	4.0	109 111	141	✓			
								120 114	138	✓			
								100 103	157	✓			
								105 106	145	✓			
264	6/19	0640	75:35	GG	S/S	830	5.0	105 116	159	✓			
								119 119	163	✓			
								127 133	164	✓			
								116 118	168	✓			
265	6/19	0650	754010	RR	S/S	830	3.0	113 133	168	✓			
								118 127	157	✓			
								117 124	155	✓			
								119 117	155	✓			
266	6/19	0658	752089	PC	S/S	825	4.0	123 124	162	✓			
								127 115	151	✓			
								115 100	155	✓			
								112 129	153	✓			
267	6/19	0846	754010	RR	S/S	830	3.0	99 103	144	✓			
								97 104	138	✓			
								113 94	136	✓			
								102 109	133	✓			
268	6/19	1340	754010	RR	S/S	830	3.0	90 107	134	✓			
								110 97	130	✓			
								105 100	133	✓			
								105 102	129	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.: 8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
269	6/19	1415	75:35	GG	S/S	830	5.0	107	135	/			
								106	134	/			
								102	135	/			
								107	138	/			
270	6/20	0646	75:28	PC	S/S	750	4.0	147	159	/			
								148	159	/			
								148	161	/			
								144	162	/			
271	6/20	0700	75:35	GG	S/S	830	5.0	121	165	/			
								130	170	/			
								123	170	/			
								126	152	/			
272	6/20	0650	75:25	RR	S/S	820	4.0	115	158	/			
								107	163	/			
								105	168	/			
								114	161	/			
273	6/20	1005	75:29	RR	S/S	750	4.0	103	143	/			
								100	139	/			
								98	136	/			
								97	131	/			
274	6/20	0746	75:35	GG	S/S	830	5.0	110	129	/			
								125	128	/			
								105	133	/			
								106	131	/			
275	6/20	1345	75:28	PC	S/S	750	4.0	99	127	/			
								114	129	/			
								98	133	/			
								106	136	/			
276	6/20	0640	75:35	GG	S/S	830	5.0	104	159	/			
								107	163	/			
								106	156	/			
								120	155	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.: 8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
277	6/21	0658	75:28	PC	S/S	750	4.0	105 108	156	✓			
								101 106	155	✓			
								121 118	138	✓			
								104 116	150	✓			
278	6/21	0645	752025	JC	S/S	800	4.0	124 150	150	✓			
								114 106	160	✓			
								118 106	154	✓			
								116 114	149	✓			
279	6/21	0640	754016	RR	S/S	830	3.0	118 128	141	✓			
								124 123	143	✓			
								126 121	150	✓			
								118 115	152	✓			
280	6/21	1320	75:35	GG	S/S	830	5.0	106 98	156	✓			
								104 109	151	✓			
								103 105	155	✓			
								102 100	160	✓			
281	6/21	1317	75:28	PC	S/S	750	4.0	100 97	127	✓			
								104 99	131	✓			
								96 112	130	✓			
								103 129	129	✓			
282	6/21	1310	75:25	JC	S/S	800	4.0	104 100	138	✓			
								101 102	132	✓			
								100 98	141	✓			
								103 107	127	✓			
283	6/21	1321	754016	RR	S/S	830	3.0	100 98	132	✓			
								103 106	128	✓			
								98 106	135	✓			
								105 111	131	✓			
284	6/21	0656	75:35	GG	S/S	830	5.0	99 110	160	✓			
								103 106	165	✓			
								101 109	171	✓			
								115 104	169	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.: 8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
285	6/23	0636	752025	JC	S/S	800	4.0	100 109	150	/			
								96 97	141	/			
								117 105	163	/			
								126 111	156	/			
286	6/23	0643	75:28	P.C.	S/S	750	4.0	98 97	156	/			
								113 117	156	/			
								110 110	161	/			
								115 109	152	/			
287	6/23	0650	754016	RR	S/S	830	5.0	126 117	156	/			
								109 130	161	/			
								128 125	172	/			
								129 126	165	/			
288	6/23	1353	75:35	GG	S/S	830	5.0	107 101	152	/			
								97 102	144	/			
								98 99	138	/			
								113 100	141	/			
289	6/23	1340	752025	JC	S/S	800	4.0	41 102	136	/			
								113 105	137	/			
								113 96	143	/			
								113 96	135	/			
290	6/23	1358	75:28	PC	S/S	750	4.0	122 104	140	/			
								123 114	135	/			
								95 113	134	/			
								119 100	143	/			
291	6/23	1350	754016	RR	S/S	830	3.0	103 104	136	/			
								100 117	141	/			
								100 103	140	/			
								116 113	130	/			
292	6/24	0650	75:35	GG	S/S	830	5.0	115 97	156	/			
								108 123	161	/			
								110 118	167	/			
								113 121	159	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - FUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 91 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.: 9829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	WEDGE TEMP. (°C / °F)	MACHINE SPEED SETTING	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
293	6/24	0620	75625	SC	S/S	800	4.0	115 125	158	/			BB
								116 112	159	/			BB
								126 109	152	/			BB
								118 108	157	/			BB
294	6/24	0626	75528	PC	S/S	700	4.0	107 121	154				BB
								109 117	151	/			BB
								104 116	157	/			BB
								103 128	156	/			BB
295	6/24	0703	754010	RR	S/S	830	3.0	131 114	161	/			BB
								130 117	167	/			BB
								140 138	158	/			BB
								112 114	155	/			BB
296	6/27	0820	75535	SC	S/S	800	4.0	118 117	167	/			BB
								117 116	172	/			BB
								104 111	168	/			BB
								111 108	174	/			BB
297	6/28	0715	75535	GG	S/S	830	4.0	133 129	151	/			BB
								121 132	154	/			BB
								108 117	146	/			BB
								121 154	151	/			BB

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

APPENDIX F-6B

EXTRUSION WELD

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DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Ultratest 5000/B SERIAL NO.: 96820

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
1	10/10/07	14:45	74-15	J.C.		500	500	96	157	/			
								117	159	/			
								106	157	/			
								121	162	/			
2	10/11/07	07:45	74-15	J.C.		500	500	110	173	/			
								110	131	/			
								87	172	/			
								111	170	/			
3	10/11/07	14:15	74-15	J.C.		500	500	115	129	/			
								119	140	/			
								116	143	/			
								108	157	/			
4	10/12/07	09:00	74-15	J.C.		500	500	99	165	/			
								91	168	/			
								108	167	/			
								121	165	/			
5	10/12/07	13:50	74-15	J.C.		500	500	129	143	/			
								133	161	/			
								135	152	/			
								153	158	/			
6	10/15/07	12:15	74-15	J.C.		500	500	144	158	/			
								104	161	/			
								119	161	/			
								80	165	/			
7	10/16	07:45	74-15	J.C.		500	500	117	185	/			
								122	187	/			
								115	190	/			
								122	173	/			
8	10/16	14:00	74-15	J.C.		500	500	112	145	/			
								126	138	/			
								116	149	/			
								121	163	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitlock 500lb SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
9	10/18	14:15	74-15	J.C.		500	500	107	191	/			
								109	174	/			
								135	179	/			
								144	199	/			
10	10/19	0830	74-15	J.C.		500	500	135	173	/			
								153	172	/			
								142	175	/			
								140	174	/			
11	10/19	14:15	74-15	J.C.		500	500	121	153	/			
								112	198	/			
								96	153	/			
								118	153	/			
12	10/19	15:15	74-11	C.G.		500	480	109	142	/			
								119	142	/			
								116	135	/			
								131	150	/			
13	10/20	14:15	74-15	J.C.		550	550	106	145	/			
								125	146	/			
								123	144	/			
								127	143	/			
14	10/23	11:15	74-13	J.C.		550	530	108	157	/			
								121	155	/			
								129	156	/			
								131	161	/			
15	10/23	15:15	74-15	J.C.		550	530	130	142	/			
								123	142	/			
								140	141	/			
								135	141	/			
16	10/24	08:46	74-15	J.C.		550	530	130	142	/			
								123	142	/			
								140	141	/			
								135	141	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wiegner Whitest 500lb SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
17	10/24	11:35	74-11	C.G.		486	550	125	159	/			
								135	148	/			
								133	161	/			
								141	153	/			
18	10/24	13:45	74-15	C.Q		550	550	124	135	/			
								126	145	/			
								131	145	/			
								133	141	/			
19	10/25	09:16	74-15	R.R		550	550	126	155	/			
								120	160	/			
								119	152	/			
								114	164	/			
20	10/25	14:45	74-15	R.R		550	550	123	142	/			
								130	142	/			
								128	144	/			
								125	138	/			
21	10/26	09:35	74-15	R.R.		550	550	121	170	/			
								133	170	/			
								139	172	/			
								138	170	/			
22	10/27	09:54	74-15	R.R.		550	550	121	156	/			
								120	168	/			
								111	157	/			
								128	164	/			
23	10/29	08:30	74-15	R.R.		550	550	109	174	/			
								110	171	/			
								131	175	/			
								118	166	/			
24	10/30	13:30	74-15	J.C.		550	550	101	169	/			
								102	155	/			
								136	161	/			
								124	163	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Whitest 500lb SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
25	10/31	0800	74-15	J.C.		550	550	141	170	/			WW
								119	170	/			WW
								121	178	/			WW
								135	171	/			WW
26	10/31	0815	74-15	D.C.		550	550	131	144	/			WW
								110	146	/			WW
								135	139	/			WW
								132	143	/			WW
27	11/1	0745	74-15	J.C.		550	550	152	156	/			WW
								156	174	/			WW
								145	182	/			WW
								131	177	/			WW
28	11/1	1100	74-11	R.R		500	500	97	148	/			WW
								101	147	/			WW
								119	153	/			WW
								98	150	/			WW
29	11/1	1340	74-15	DC		550	550	104	144	/			WW
								111	148	/			WW
								112	156	/			WW
								117	147	/			WW
30	11/2	0745	74-15	JC		550	550	120	182	/			WW
								124	183	/			WW
								127	178	/			WW
								141	180	/			WW
31	11/3	0800	74-15	JC		550	550	111	178	/			WW
								98	177	/			WW
								120	176	/			WW
								119	179	/			WW
32	11/3	1415	74-15	JC		550	550	124	155	/			WW
								125	156	/			WW
								121	153	/			WW
								114	157	/			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Ultitest 5 or 3 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
33	11/5	0600	24-15	JC		550	550	138	175	/			WW
								148	178	/			WW
								132	176	/			WW
								157	177	/			WW
34	11/6	0730	24-15	JC		550	550	126	183	/			WW
								114	198	/			WW
								148	199	/			WW
								160	195	/			WW
35	11/6	0810	25-11	RR		530	550	130	175	/			WW
								139	179	/			WW
								104	169	/			WW
								153	171	/			WW
36	11/6	1300	25-11	RR		510	550	99	149	/			WW
								108	149	/			WW
								117	147	/			WW
								119	147	/			WW
37	11/6	1315	24-15	JC		550	550	131	157	/			WW
								107	149	/			WW
								133	141	/			WW
								131	155	/			WW
38	11/7	0730	24-15	JC		550	550	145	166	/			WW
								161	169	/			WW
								163	173	/			WW
								161	169	/			WW
39	11/7	1400	24-15	JC		550	550	134	158	/			WW
								140	154	/			WW
								123	160	/			WW
								121	157	/			WW
40	11/8	0710	24-11	RR		520	550	96	150	/			WW
								97	156	/			WW
								117	168	/			WW
								128	151	/			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: WEGENER ULTITEST 5048 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
41	11/8	0730	74-15	JC		550	550	130	198	/			WW
								121	192	/			WW
								115	193	/			WW
								131	191	/			WW
42	11/8	1045	74-11	JC		550	550	117	166	/			WW
								127	166	/			WW
								127	163	/			WW
								136	165	/			WW
43	11/9	0730	74-11	JC		550	550	167	165	/			WW
								163	174	/			WW
								138	171	/			WW
								161	173	/			WW
44	11/9	1415	74-15	JC		550	550	127	180	/			WW
								129	152	/			WW
								100	158	/			WW
								110	157	/			WW
45	11/10	0700	74-15	JC		550	550	156	166	/			WW
								154	162	/			WW
								158	162	/			WW
								138	163	/			WW
46	11/12	0700	74-15	JC		550	550	117	185	/			WW
								113	192	/			WW
								116	180	/			WW
								134	187	/			WW
* 47	11/12	1400		JC		550	550	131	151	/			WW
								138	162	/			WW
								133	158	/			WW
								134	154	/			WW
48	11/13	0700	74-15	JC		550	550	104	190	/			WW
								82	198	/			WW
								114	163	/			WW
								130	193	/			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: WEDGNER WITTEST 5048 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
49	11/13	1400	74-15	JC		550	550	121	158	/			WW
"	"	"	"	"		"	"	125	161	/			WW
"	"	"	"	"		"	"	131	153	/			WW
"	"	"	"	"		"	"	116	155	/			WW
50	11/14	0730	74-11	JC		550	550	142	172	/			WW
"	"	"	"	"		"	"	126	192	/			WW
"	"	"	"	"		"	"	159	171	/			WW
"	"	"	"	"		"	"	161	169	/			WW
51	11/14	1400	74-11	JC		550	550	135	142	/			WW
"	"	"	"	"		"	"	140	143	/			WW
"	"	"	"	"		"	"	136	145	/			WW
"	"	"	"	"		"	"	140	142	/			WW
52	11/15	0715	74-11	JC		550	550	172	173	/			WW
"	"	"	"	"		"	"	155	193	/			WW
"	"	"	"	"		"	"	161	184	/			WW
"	"	"	"	"		"	"	156	191	/			WW
53	11/15	1345	74-11	JC		550	550	105	139	/			WW
"	"	"	"	"		"	"	103	133	/			WW
"	"	"	"	"		"	"	108	142	/			WW
"	"	"	"	"		"	"	112	140	/			WW
54	11/16	0700	74-11	JC		550	550	111	169	/			WW
"	"	"	"	"		"	"	104	167	/			WW
"	"	"	"	"		"	"	146	170	/			WW
"	"	"	"	"		"	"	141	188	/			WW
55	11/16	0815	74-15	RR		530	550	86	160	/			WW
"	"	"	"	"		"	"	115	164	/			WW
"	"	"	"	"		"	"	104	170	/			WW
"	"	"	"	"		"	"	83	169	/			WW
56	11/16	1400	74-11	JC		550	550	131	136	/			WW
"								128	135	/			WW
"								128	136	/			WW
"								127	140	/			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

GeosynteC consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: MACHINE UTTEST 5048 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
57	11/17	0800	74-11	JC		550	550	121	157	/			WW
								126	161	/			WW
								119	155	/			WW
								128	162	/			WW
58	11/17	1315	74-11	JC		550	550	119	155	/			WW
								122	152	/			WW
								126	154	/			WW
								114	154	/			WW
59	11/18	0730	74-11	JC		550	550	120	171	/			WW
								102	163	/			WW
								93	167	/			WW
								118	172	/			WW
60	11/18	1010	74-15	JC		550	550	117	163	/			WW
								121	151	/			WW
								113	156	/			WW
								130	167	/			WW
61	11/18	1225	74-15	JC		550	550	121	154	/			WW
								98	159	/			WW
								119	160	/			WW
								107	155	/			WW
62	11/19	0730	74-15	JC		550	550	120	179	/			WW
								112	183	/			WW
								114	185	/			WW
								102	189	/			WW
63	11/19	1400	74-15	JC		550	550	80	114	/			WW
								93	105	/			WW
								93	106	/			WW
								100	111	/			WW
64	11/20	0730	74-15	JC		550	550	150	177	/			WW
								104	173	/			WW
								148	172	/			WW
								133	178	/			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wedge Wright SN#6 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
65	11/20	0900	74-12	BR		550	550	97	145	X			WW
								100	146	X			WW
								104	145	X			WW
								106	148	X			WW
66	11/20	1400	74-12	JC		550	550	127	142	X			WW
								110	145	X			WW
								130	144	X			WW
								108	148	X			WW
67	11/26	0800	74-15	JC		550	550	138	178	X			WW
								131	184	X			WW
								141	172	X			WW
								103	191	X			WW
68	11/26	1350	74-15	JC		550	550	131	161	X			WW
								147	176	X			WW
								149	168	X			WW
								143	180	X			WW
69	11/28	0805	74-15	JC		550	550	112	184	X			WW
								156	191	X			WW
								105	184	X			WW
								156	195	X			WW
70	11/28	1400	74-15	JC		550	550	130	165	X			WW
								110	185	X			WW
								122	171	X			WW
								143	183	X			WW
71	11/30	0800	74-15	JC		550	550	104	156	X			WW
								111	171	X			WW
								125	184	X			WW
								118	179	X			WW
72	12/03	13:35	74-15	J.C.		550	550	118	148	/			BR
								98	143	/			BR
								98	154	/			BR
								94	156	/			BR

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: WELDNER ULTRA 5T 5600 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
73	12/04	11:30	74-15	J.C.		550	550	117	170	/			BR
"	"	"	"	"		"	"	119	172	/			BR
"	"	"	"	"		"	"	116	167	/			BR
"	"	"	"	"		"	"	124	168	/			BR
74	12/05	08:00	74-15	J.C.		550	550	104	194	/			BR
"	"	"	"	"		"	"	110	197	/			BR
"	"	"	"	"		"	"	108	191	/			BR
"	"	"	"	"		"	"	119	190	/			BR
75	12/05	13:15	74-15	J.C.		550	550	140	184	/			BR
"	"	"	"	"		"	"	143	181	/			BR
"	"	"	"	"		"	"	141	178	/			BR
"	"	"	"	"		"	"	154	176	/			BR
76	12/06	08:00	74-15	J.C.		550	550	129	179	/			BR
"	"	"	"	"		"	"	124	184	/			BR
"	"	"	"	"		"	"	141	181	/			BR
"	"	"	"	"		"	"	136	182	/			BR
77	12/06	13:10	74-15	J.C.		550	550	141	168	/			BR
"	"	"	"	"		"	"	143	176	/			BR
"	"	"	"	"		"	"	149	181	/			BR
"	"	"	"	"		"	"	154	184	/			BR

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Aquaven-Lite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
78	4/12	0815	74-11	G.G.		500	550	124	162	✓			RS
								121	168	✓			RS
								129	174	✓			RS
								131	171	✓			RS
								124	165	✓			RS
79	4/12	0830	74-12	J.C.		500	550	108	169	✓			RS
								136	181	✓			RS
								138	193	✓			RS
								151	187	✓			RS
								158	191	✓			RS
80	4/12	1315	74-11	G.G.		500	550	149	169	✓			RS
								132	171	✓			RS
								128	170	✓			RS
								131	184	✓			RS
								136	186	✓			RS
81	4/14	0800	74-11	~~J.C.~~ G.G.		500	550	108	158	✓			RS
								110	161	✓			RS
								114	157	✓			RS
								107	155	✓			RS
82	4/14	0805	74-11	J.C.		500	550	112	149	✓			RS
								116	154	✓			RS
								108	158	✓			RS
								110	160	✓			RS
83	4/14	1340	74-11	J.C.		500	550	94	146	✓			RS
								97	135	✓			RS
								101	133	✓			RS
								104	138	✓			RS
84	4/15	0730	74-11	G.G.		500	550	106	150	✓			RS
								104	161	✓			RS
								101	164	✓			RS
								108	160	✓			RS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accu-Weight Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
85	4/15	0745	7420011	J.C.		500	550	111	187	/			
								114	174	/			
								112	168	/			
								112	171	/			
86	4/16	0745	7420011	J.C.		500	550	126	178	/			
								121	167	/			
								118	167	/			
								107	169	/			
87	4/16	0750	74-11	G.G.		500	550	132	178	/			
								128	171	/			
								124	176	/			
								127	181	/			
88	4/17	0750	74-11	G.G.		500	550	108	163	/			
								112	165	/			
								110	160	/			
								106	167	/			
	~~4/18~~	~~0750~~	~~74-11~~										
89	4/18	11:40	74-11	G.G.		500	550	121	152	/			
								118	154	/			
								116	149	/			
								117	150	/			
90	4/19	0900	74-11	G.G.		500	550	104	170	/			
								108	174	/			
								106	168	/			
								99	167	/			
91	4/19	1355	74-11	G.G.		500	550	102	158	/			
								96	161	/			
								98	156	/			
								104	149	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accusalite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
92	4/21	0910	74-11	G.G.		550	500	116	178	✓			BB
								120	174	✓			BB
								117	169	✓			BB
								105	164	✓			BB
93	4/22	0745	74-11	G.G.		550	500	101	171	✓			BB
								108	176	✓			BB
								99	177	✓			BB
								98	174	✓			BB
94	4/23	0730	74-11	G.G.		550	500	126	168	✓			BB
								121	171	✓			BB
								119	164	✓			BB
								124	166	✓			BB
95	4/24	0810	74-11	G.G.		550	500	118	168	✓			BB
								121	161	✓			BB
								124	169	✓			BB
								132	167	✓			BB
	4/24	1150	~~74-11~~	G.G.									
96	4/24	1420	74-11	G.G.		550	500	108	156	✓			BB
								110	148	✓			BB
								106	158	✓			BB
								104	155	✓			BB
97	4/25	0950	74-11	C.G.		500	500	108	151	✓			BB
								112	154	✓			BB
								116	157	✓			BB
								110	152	✓			BB
98	4/28	0900	74-11	J.C.		550	500	136	165	✓			BB
								142	167	✓			BB
								150	176	✓			BB
								145	171	✓			BB

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accutorque Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
99	4/29	1310	74-11	J.C.		550	500	130	157	✓			
								130	159	✓			
								128	154	✓			
								131	160	✓			
100	4/29	0640	74-11	J.C.		550	500	104	145	✓			
								106	152	✓			
								100	149	✓			
								100	148	✓			
101	4/30	0700	74-11	J.C.		550	500	148	175	✓			
								145	181	✓			
								140	177	✓			
								125	180	✓			
102	5/1	0800	74-11	J.C.		550	500	124	190	✓			
								121	188	✓			
								126	194	✓			
								125	192	✓			
103	5/2	0830	74-11	J.C.		550	560	136	164	✓			
								132	161	✓			
								128	158	✓			
								134	160	✓			
104	5/2	1330	74-11	B.G.		550	500	107	163	✓			
								100	159	✓			
								99	172	✓			
								104	158	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accurabite Portable Tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
105	5/3	1200	74-11	J.C.		550	500	143	158	✓			
								130	160	✓			
								114	158	✓			
								125	160	✓			
106	5/3	1315	742-11	G.G.		550	500	86	129	✓			
								86	125	✓			
								96	124	✓			
								85	130	✓			
107	5/5	0701	742-11	J.C.		550	500	146	153	✓			
								141	157	✓			
								138	154	✓			
								134	159	✓			
108	5/5	1350	74-11	G.G.		550	500	101	138	✓			
								113	134	✓			
								111	131	✓			
								108	140	✓			
109	5/6	0700	742-11	J.C.		550	500	108	159	✓			
								117	181	✓			
								108	172	✓			
								111	171	✓			
110	5/6	1300	742-11	J.C.		550	500	108	146	✓			
								110	148	✓			
								114	138	✓			
								111	148	✓			
111	5/7	0630	742-11	J.C.		550	500	122	170	✓			
								99	173	✓			
								113	178	✓			
								126	166	✓			
112	5/7	1300	742-11	J.C.		550	500	126	141	✓			
								129	146	✓			
								132	137	✓			
								124	150	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.:

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
113	5/8	1000	742-11	J.C.		550	500	102	153	✓			BS
								125	161	✓			BS
								114	148	✓			BS
								122	167	✓			BS
114	5/9	1020	742-11	J.C		550	500	140	152	✓			BS
								122	159	✓			BS
								123	163	✓			BS
								125	157	✓			BS
115	5/9	1215	742-11	J.C.		550	500	123	143	✓			BS
								132	149	✓			BS
								122	151	✓			BS
								133	146	✓			BS
116	5/10	0630	742-11	J.C.		550	500	104	175	✓			BS
								112	172	✓			BS
								106	160	✓			BS
								123	179	✓			BS
~~117~~	~~5/10~~	~~0635~~	~~742-11~~	~~D.C.~~									
117	5/10	0650	74-11	G.G.		550	500	110	156	✓			BS
								106	151	✓			BS
								97	154	✓			BS
								100	162	✓			BS
118	5/10	1122	742-11	J.C		550	500	138	171	✓			ML
								139	172	✓			ML
								141	177	✓			ML
								117	172	✓			ML
119	5/12	0630	742-11	J.C.		550	500	125	186	✓			ML
								121	167	✓			ML
								100	173	✓			ML
								96	178	✓			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: SERIAL NO.:

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
120	5/15	1100	7420011	JC		500		110	160	/			ML
								102	150	/			ML
								111	157	/			ML
								114	155	/			ML
								110	157	/			ML
121	5/15	1100	74-11	GG		500		87	164	/			ML
								91	158	/			ML
								89	176	/			ML
								99	160	/			ML
								99	156	/			ML
122	5/16	0915	74-11	GG		500		85	165	/			ML
								94	157	/			ML
								101	163	/			ML
								85	161	/			ML
								109	153	/			ML
123	5/16	1000	7420011	JC		500		94	162	/			ML
								91	194	/			ML
								88	141	/			ML
								93	153	/			ML
								95	162	/			ML
124	5/17	1300	7420011	JC		550	520	116	159	/			[illegible]
								114	159	/			[illegible]
								111	156	/			[illegible]
								108	151	/			[illegible]
125	5/19	0500	7420011	JC		550	500	107	154	/			[illegible]
								109	159	/			[illegible]
								101	158	/			[illegible]
								100	147	/			[illegible]
126	5/21	0710	7420011	JC		550	500	131	169	/			[illegible]
								137	158	/			[illegible]
								124	171	/			[illegible]
								136	173	/			[illegible]

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accurra Lite Portable tensiometer SERIAL NO.: 813-988 - 8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
127	5/28	0830	74-11	H.O.		480	500	110	151	✓			RS
								118	161	✓			RS
								112	167	✓			RS
								112	145	✓			RS
128	5/28	1400	74-11	H.O.		490	465	89	139	✓			RS
								98	142	✓			RS
								108	138	✓			RS
								101	139	✓			RS
129	5/29	0645	74-11	H.O.		480	500	113	170	✓			RS
								101	173	✓			RS
								96	177	✓			RS
								96	169	✓			RS
130	6/3	0830	74-11	JC	S/S	550°	500°	135	148	✓			WW
								129	140	✓			WW
								99	152	✓			WW
								127	150	✓			WW
131	6/4	0700	74-11	JC	S/S	550°	500°	108	167	✓			WW
								85	162	✓			WW
								113	160	✓			WW
								112	164	✓			WW
132	6/4	1315	74-11	JC	S/S	550°	500°	102	156	✓			WW
								110	158	✓			WW
								108	157	✓			WW
								103	152	✓			WW
133	6/4	1330	74-11	JC	S/T	550°	500°	113	153	✓			WW
								115	157	✓			WW
								117	157	✓			WW
								116	156	✓			WW
134	6/7	0900	74-11	JC	S/T	550°	500°	129	159	✓			WW
								134	157	✓			WW
								127	160	✓			WW
								124	156	✓			WW

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accurra Lite tensiometer SERIAL NO.: 813-988-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
135	6/9	0655	74-11	JC	S/T	550°	500°	113	172	✓			WW
								122	168	✓			WW
								117	166	✓			WW
								108	160	✓			WW
136	6/9	1330	74-11	JC	S/S	550°	500°	119	149	✓			WW
								134	153	✓			WW
								117	151	✓			WW
								116	147	✓			WW
~~137~~	~~6/10 6/11~~	~~0900~~ WW	~~74-11~~										
137	6/11	1035	74-11	JC	S/S	550°	500°	126	160	✓			WW
								138	164	✓			WW
								124	158	✓			WW
								132	161	✓			WW
138	6/11	1630	74-11	JC	S/T	550°	500°	128	152	✓			WW
								129	167	✓			WW
								124	161	✓			WW
	6/12							126	169	✓			WW
139	6/12	0655	74-11	JC	S/S	550	500	148	161	✓			BS
								160	164	✓			BS
								141	162	✓			BS
								140	170	✓			BS
140	6/12	0700	74-11	JC	S/S	550	500	153	185	✓			BS
								142	171	✓			BS
								150	177	✓			BS
								148	174	✓			BS
141	6/12	1400	74-11	JC	S/S	550	500	111	147	✓			BS
								114	156	✓			BS
								111	145	✓			BS
								106	152	✓			BS

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ■ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accumulite portable Tensiometer SERIAL NO.: 813-998-8829

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
142	6/12	1405	742-11	SC	S/S	550	500	116	157	✓			
								136	157	✓			
								120	167	✓			
								127	161	✓			
143	6/13	0905	742-11	SC	S/S	550	500	107	167	✓			
								129	158	✓			
								143	159	✓			
								122	147	✓			
144	6/13	1400	742-11	SC	S/S	550	500	109	156	✓			
								114	129	✓			
								111	140	✓			
								108	136	✓			
145	6/14	0700	742-11	RR	S/S	500	500	104	152	✓			
								107	149	✓			
								101	151	✓			
								106	147	✓			
146	6/14	1342	742-11	RR	S/S	550	500	159	130	✓			
								123	128	✓			
								117	131	✓			
								129	140	✓			
147	6/14	0905	742-12	SC	S/S	550	500	107	167	✓			
								129	158	✓			
								143	159	✓			
								122	147	✓			
148	6/14	1315	742-12	SC	S/S	550	500	107	167	✓			
								129	158	✓			
								143	159	✓			
								122	147	✓			
149	6/16	0630	742-11	SC	S/S	550	500	93	161	✓			
								112	173	✓			
								101	172	✓			
								99	173	✓			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Accurolite Portable Tensiometer SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
150	6/16	0650	74-11	RP	S/S	550	500	101	151	/			
								106	149	/			
								112	161	/			
								109	170	/			
151	6/16	1300	74-11	RP	S/S	500	500	93	161	/			
								112	173	/			
								101	172	/			
								99	175	/			
152	6/17	0700	742-11	SC	S/S	550	500	116	191	/			
								118	186	/			
								122	183	/			
								123	184	/			
153	6/17	0640	74-11	RG	S/S	500	500	129	156	/			
								140	169	/			
								132	148	/			
								157	154	/			
154	6/18	0640	74-11	RG	S/S	500	500	120	168	/			
								136	171	/			
								127	171	/			
								136	169	/			
155	6/18	0730	742-11	SC	S/S	550	500	108	147	/			
								103	144	/			
								107	150	/			
								109	150	/			
156	6/18	1540	74-11	RG	S/S	500	460	132	143	/			
								127	136	/			
								125	138	/			
								108	141	/			
157	6/19	0700	742-12	SC	S/S	550	500	126	156	/			
								136	151	/			
								135	150	/			
								137	155	/			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ■ ppi □ psi

TENSIOMETER DESCRIPTION: Wegener Utilitest 500/B SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
158	06/19	1400	7420011	JC	S/S	550	500	123	127	/			ML
								116	131	/			ML
								113	132	/			ML
								121	136	/			ML
								104	129	/			ML
159	06/19	1400	74-11	RG	S/S	830	430	129	133	/			ML
								126	129	/			ML
								136	129	/			ML
								120	129	/			ML
								106	136	/			ML
160	06/20	0700	7420011	JC	S/S	550	500	155	167	/			ML
								137	147	/			ML
								129	161	/			ML
								146	160	/			ML
								130	149	/			ML
161	06/20	0740	74-11	RG	S/S	500	500	116	146	/			ML
								117	141	/			ML
								117	141	/			ML
								109	148	/			ML
								113	142	/			ML
162	06/20	1350	74-11	RG	S/S	500	500	130	133	/			ML
								126	129	/			ML
								120	136	/			ML
								127	130	/			ML
								132	131	/			ML
163	06/20	1400	7420011	JC	S/S	550	500	109	128	/			ML
								112	127	/			ML
								115	129	/			ML
								117	127	/			ML
								116	128	/			ML
164	06/21	0650	74-11	RG	S/S	500	500	100	146	/			ML
								108	152	/			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ■ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegner Utilitest 500/3 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
164	06/21	0650	74-11	RG	S/S	500	500	111	140	/			ML
								100	148	/			ML
								96	140	/			ML
165	06/21	1321	74-11	RS	S/S	480	500	117	130	/			ML
								129	135	/			ML
								116	132	/			ML
								105	130	/			ML
								124	133	/			ML
166	06/23	0700	74-11	RG	S/S	500	500	95	142	/			ML
								101	154	/			ML
								91	153	/			ML
								102	150	/			ML
								99	148	/			ML
167	06/25	0630	74200011	JC	S/S	550	500	93	154	/			ML
								105	148	/			ML
								102	156	/			ML
								122	157	/			ML
								112	147	/			ML
168	06/25	0640	74-11	RG	S/S	500	500	110	160	/			ML
								116	156	/			ML
								108	156	/			ML
								118	152	/			ML
								113	146	/			ML
169	06/25	0700	74 00002	RR	S/S	480	500	114	152	/			ML
								102	150	/			ML
								127	148	/			ML
								110	153	/			ML
								119	149	/			ML
170	06/25	0732	74200012	PC	S/S	400	500	96	138	/			ML
								98	149	/			ML
								103	152	/			ML
								109	145	/			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ■ ppi □ psi

TENSIOMETER DESCRIPTION: Wegener Unitest 500/13 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
								111	145	/			ML
171	06/25	1340	7420011	JC	S/S	550	500	90	131	/			ML
								92	139	/			ML
								96	142	/			ML
								100	128	/			ML
								111	133	/			ML
172	06/25	1340	740002	RR	S/S	480	500	117	137	/			ML
								115	130	/			ML
								101	129	/			ML
								124	133	/			ML
								115	135	/			ML
173	06/25	1346	74-11	RS	S/S	450	500	98	143	/			ML
								96	126	/			ML
								99	133	/			ML
								104	130	/			ML
								99	129	/			ML
174	06/25	1448	7420012	PC	S/S	400	500	114	139	/			ML
								104	128	/			ML
								111	129	/			ML
								104	132	/			ML
								107	128	/			ML
175	06/26	0630	7420001	JC	S/S	550	500	97	157	/			ML
								96	160	/			ML
								98	149	/			ML
								101	162	/			ML
								99	161	/			ML
176	06/26	0630	74-11	RG	S/S	500	500	99	156	/			ML
								112	152	/			ML
								103	148	/			ML
								97	152	/			ML
								105	163	/			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISON MINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☒ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Utilitest 500/B SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
177	06/26	0645	740002	GG	S/S	450	500	115	142	/			ML
								120	139	/			ML
								99	164	/			ML
								104	148	/			ML
								108	150	/			ML
178	06/26	0640	7420002	PC	S/S	450	500	108	139	/			ML
								98	142	/			ML
								101	135	/			ML
								91	143	/			ML
								131	143	/			ML
179	06/26	1330	7420002	RG	S/S	480	500	104	128	/			ML
								105	130	/			ML
								98	132	/			ML
								110	127	/			ML
								102	129	/			ML
180	06/26	1320	740002	GG	S/S	480	500	112	133	/			ML
								99	139	/			ML
								101	127	/			ML
								103	131	/			ML
								103	128	/			ML
181	06/26	1400	7420001	JC	S/S	550	500	132	141	/			ML
								118	138	/			ML
								127	146	/			ML
								130	140	/			ML
								115	143	/			ML
182	06/27	0630	7400002	RR	S/S	480	500	127	156	/			ML
								127	149	/			ML
								123	163	/			ML
								120	167	/			ML
								117	149	/			ML
								123	157	/			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

Geosyntec consultants

DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☑ ppi ☐ psi

TENSIOMETER DESCRIPTION: Wegener Utilitest 500/13 SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
183	06/27	0700	74200012	RG	S/S	500	500	112	158	/			ML
								121	155	/			ML
								90	148	/			ML
								91	167	/			ML
								116	152	/			ML
184	06/27	1300	74200012	JC	S/S	500	500	127	142	/			ML
								112	139	/			ML
								106	144	/			ML
								113	129	/			ML
								112	135	/			ML
185	06/27	1400	74200012	RG	S/S	480	450	109	128	/			ML
								97	132	/			ML
								127	127	/			ML
								106	127	/			ML
								116	128	/			ML
186	06/28	0700	74200012	RG	S/S	500	500	97	107	/			ML
								101	148	/			ML
								112	152	/			ML
								98	162	/			ML
								105	148	/			ML
187	06/28	0710	74200111	JC	S/S	550	500	145	157	/			ML
								125	149	/			ML
								145	151	/			ML
								129	146	/			ML
								133	152	/			ML

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

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DENISONMINES

TRIAL SEAM LOG - EXTRUSION

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007 2008

SPECIFICATIONS: PEEL: 78 SHEAR: 120 ☐ ppi ☒ psi

TENSIOMETER DESCRIPTION: Wegener Uhlitest 500/B SERIAL NO.: 96020

TRIAL SEAM NO.	DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	MAT. DESCR. (1)	PREHEAT TEMP. (°C / °F)	BARREL TEMP. (°C / °F)	PEEL	SHEAR	PASS	FAIL	RETEST NO.	QA ID
188	29 June	1009	742aa12	RG	S/S	500	500	110	134	X			
								115	141	X			
								118	140	X			
								125	141	X			
								114	135	X			
189	30 June	0840	742aa12	RG	S/S	500	500	94	138	X			
								113	144	X			
								118	147	X			
								117	141	X			
								114	138	X			

NOTE: (1) MATERIAL DESCRIPTION REFERS TO EITHER SMOOTH/SMOOTH (S/S); SMOOTH/TEXTURED (S/T); OR TEXTURED/TEXTURED (T/T).

APPENDIX F-7

PANEL PLACEMENT LOGS

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: _____ PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID	
1	10513 0695	10/9	1610 pm	N.W slope corner	22'	125'	RS	
2	10513 0695	↓	1620 pm				RS	
3	10513 0695	10/10	am	SB3 W Slope			RS	
4	10513 0702		am				RS	
5	10513 0702		am				RS	
6	10513 0702		am				RS	
7	10513 0715		pm				RS	
8	10513 0715	—					RS	
9	10513 0715	10/11	~~9:50 am~~				RS	
10	10513 0692		10:02 am				RS	
11	10513 0692		10:10 am				RS	
12	10513 0692		10:20 am				RS	
13	10513 0713		10:30				RS	
14	10513 0713		10:42				RS	
15	10513 0713		10:56				RS	
16	10513 0697		11:07				RS	
17	10513 0697		11:20				RS	
18	10513 0697	—	11:32				RS	49,500
19	10513 0701	10/12	08:30	N.W slope corner		122'	RS	2684
20	10513 0701		08:42			108'	RS	2376
21	10513 0701		08:58			89'	RS	1958
22	10513 0107		09:14			67'	RS	1474
23	10513 0697		09:31			37'	RS	814
24	10513 0698		10:24			45'	RS	990
25	10513 0698		10:11			103'	RS	2266
26	10513 0698		09:58			149'	RS	3278
27	10513 0698	—	09:52			142'	RS	3124
28	10513 0688	10/15	09:58	N.W. Cell Floor		401'	RS	8822
29	10513 0712		10:13			403'	RS	8866
30	10513 0714		10:28			405'	RS	8910
31	10513 0708		10:40			393'	RS	8646
32	10513 0708		10:48			145'	RS	3190

APPROXIMATE AREA: THIS PAGE: 106,898 FT² ACCUMULATED: 106,898 FT²

NOTES: _____

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
33	105130691	10/15/07	11:04	N. W. cell floor	22'	143'	BB
34	105130691		11:12		22'	148'	BB
35	105130691		11:25		15'	72'	BB
36	105139467	10/16/07	08:06	N. Slope extends	22'	589'	BB
37	105139468		08:18	onto cell floor	22'	~~595'~~	BB
38	105139476		08:33		22'	~~591'~~	BB
39	105139453		08:51		22'	~~595'~~	BB
40	105139476	10/16	09:12		22'	~~553'~~	BB
41	105139453		09:27		22'	~~589~~	
42	105139442	10/17	08:13		22'	557	
43	105139454		08:31		22'	557	
44	105139451		08:52		22'	557	
45	105139447			N. slope	22'	160'	
46	105139459			N. slope	22'	160'	
47	105139447			Cell floor	22'	397'	
48	105139459			Cell floor	22'	397	
49	105130300	10/18	08:36	N. Slope onto cell	22'	555'	BB
50	105130307		08:57	floor - Phase II	22'	555'	BB
51	105130256		09:24		22'	555'	BB
52	105130306		09:48		22'	555'	BB
53	105130237		10:13		22'	555'	BB
54	105130231	10/19	08:05		22'	550	BB
55	105130235		08:17		22'	550	BB
56	105130250		08:32		22'	550	BB
57	105130230		09:46		22'	550	BB
58	105130246		08:59		22'	550	BB
59	105130295	10/20	07:50		22'	550	BB
60	105130233		08:03		22'	550	BB
61	105130244		08:15		22'	550	BB
62	105130223		08:27		22'	550	BB
63	105130249		08:41		22'	550	BB

559
559
559
559
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559

APPROXIMATE AREA: THIS PAGE: 325,094 FT² ACCUMULATED: 431,992 FT²

NOTES:

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
64	105130683	10/22	13:17	N. Slope onto	22'	550	
65	105130622		13:31	cell floor, Phase II	22'	550	
66	105130619		13:43		22'	550	
67	105130688		13:56		22'	550	
68	105130598		14:10		22'	550	
69	105130599	10/23	13:02		22'	558	
70	105130596		13:16		22'	560	
71	105130617		13:27		22'	560	
72	105130606		13:40		22'	560	
73	105130573		13:54		22'	560	
74	105130696	10/25	14:36	W. Slope - Phase III	22'	121'	
75	105130696		14:44		22'	121'	
76	105130696		14:57		22'	121	
77	105130707		15:08		22'	121'	
78	105130707		15:20		22'	121'	
79	105130707		15:36		22'	121'	
80	105130694		15:51		22'	121'	
81	105130694		16:05		22'	121'	
82	105130694		16:19		22'	129'	
83	105130694		16:32		22'	121'	
84	105130689		16:47		22'	120"	
~~85~~	~~105130689~~	10/27					
85	105130689		09:16		22'	118'	
86	105130711		09:31		22'	117'	
87	105130711		09:46		22'	117'	
88	105130711		09:58		22'	117'	
89	105130699		10:13		22'	117'	
90	105130699		10:27		22'	117'	
91	105130699		10:40		22'	117'	
92	105130705		10:56		22'	117'	
93	105130705		11:13		22'	117'	
94	105130705		11:27		22'	117'	

APPROXIMATE AREA: THIS PAGE: 177,056 FT² ACCUMULATED: 609,048 FT²

NOTES:

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
95	105130704	10/27	13:18	W. Slope	22'	157'	RS
96	105130704	10/27	13:27	S.W. Slope	22'	119'	RS
97	105130704		13:40		22'	107'	RS
98	105130690		13:52		22'	150 147'	RS
99	105130690		13:59		22'	159'	RS
100	105130690		14:12		22'	124'	RS
101	105130690		14:22		22'	18'	RS
102	105130720	10/30	08:06	W. Area of Cell	22'	420'	RS
103	105130740		08:21	Floor / S.W. Area	22'	420'	RS
104	105130718		08:37	Along Sump Pump	22'	420'	RS
105	105130721		08:50	Toe of W. Slope	22'	420'	RS
106	105130724		09:02		22'	420'	RS
107	105130572		11:02	S.W. Slope Corner	22'	34'	RS
108	105130572		[redacted]	Loose	22'	63'	RS
109	105130572		10:38		22'	91'	RS
110	105130572		10:27		20'	116'	RS
111	105130572		10:16		22'	125'	RS
112	105130574		10:03	S. Slope	22'	256'	RS
113	105130574		09:49		22'	254'	RS
114	105130581		09:37		22'	254'	RS
115	105130581		09:18		22'	135'	RS
115a	105130[redacted]3		09:28	Cell Floor	22'	119'	RS
116	105130575	10/31	09:26	S Slope onto cell floor	22'	250'	RS
117	105130575		09:39		22'	248'	RS
118	105130265		09:52		22'	248'	RS
119	105130265		10:05		22'	248'	RS
120	105130576		08:24		22'	248'	
121	105130743	08/29	08:36		22'	414'	RS
122	105130725	08/30	08:50		22'	416'	RS
123	105130742	08/30	09:03		22'	416'	RS
124	105130719	09/03	09:15		22'	419'	RS
125	105130739	09/05	09:21		22'	420'	RS

APPROXIMATE AREA: THIS PAGE: 102,316 FT² ACCUMULATED: 771,364 FT²

NOTES:

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
126	105130739	11/1		S. W. Corner	22'	120'	
127	105130739				22'	75'	
128	105130739		10:45	Sump Area	30'	20'	
129	105130739		11:04		14'	27'	
130	105130739				8'	38'	
131	105130588	11/2	09:03	S. Slope	22	252'	
132	105130588		09:14		22	252'	
133	105130592		09:27		22'	252'	
134	105130727			Cell Floor	22'	416'	
135	105130723				22'	416'	
136	105130728				22'	416'	
137	105130726	11/5	08:26	Cell Floor	22'	420'	
138	105130717	11/5	08:35		22'	420'	
139	105130592	11/5	09:13	S. Slope	20'	253'	
140	105130595		09:25		22'	253'	
141	105130732		09:38	Cell Floor	22'	420	
142	105130731		09:50		22'	420	
143	105130730		10:02		22	420	
144	105130595		10:13	S. Slope	22'	253'	
145	105130590		10:24		22'	253'	
146	105130590		10:37		22'	253'	
147	105130738	11/7	09:35	Cell Floor	22'	441'	
148	105130737		09:48		22'	441'	
149	105130736		10:03		22'	440'	
150	105130734		10:15		22'	440'	
151	105130741		10:28		22'	440'	
152	105130591		13:37	S. Slope	22'	246'	
153	105130591		13:51		22'	246'	
154	105130621		14:05		22'	246	
155	105130621		14:13		22'	246'	
156	105130540		14:22		22	246'	
157	105130540		14:35		22'	167'	

APPROXIMATE AREA: THIS PAGE: 203,032 FT² ACCUMULATED: 974,996 FT²

NOTES:

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: _____ PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
158	105130735	11/9	09:03	Cell Floor	22'	416	
159	105130722		09:14		22'	416	
160	105130733		09:27		22'	416	
161	105130706		09:42		22'	416	
162	105130703		09:56		22'	416	
163	105130540		13:09	S. Slope	22'	250'	
164	105130540		13:16		22'	85'	
165	105130537		13:28		22'	165'	
166	105130537		13:41		22'	250'	
~~167~~	105130557		13:55		22	~~136~~ 113'	
168	105130566		14:08		22'	136'	
169	105130566		14:17		22'	~~136~~ 249'	
170	105130729	11/12	08:47	Cell Floor	22'	417'	
171	105130709		08:59		22'	420'	
172	105130564		09:08		22'	420'	
173	105130539		09:20		22'	420'	
174	105130539		09:31		22'	119'	
175	105130564		09:44		22'	127'	
176	105130566		09:56		22'	162'	
177	105130595		10:05		22'	26'	
178	105139473		10:14	S. Slope	22'	249'	
179	105139473		10:27	S. Slope	22'	249'	
180	105139473		10:39	Cell Floor	22'	52'	
181	105130538		10:48	~~S.~~ S. Slope	22'	196'	
182	105130538		10:58		22'	~~196~~ 248'	
183	105130538		11:07		22'	146'	
184	105130690		11:19	Cell Floor	22'	97'	
185	105130238	11/14	08:48	Cell Floor	22'	455'	
186	105130565		09:02		22'	455'	
187	105130568		09:16		22'	454'	
188	105130568		09:29		22'	100'	
189	105130565		09:42		22'	354'	

APPROXIMATE AREA: THIS PAGE: 186,980 FT² ACCUMULATED: 1,161,776 FT²

NOTES: _____

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DENISONMINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: _____ PRODUCT TYPE: 60mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
190	105130238	11/14		S. Slope	22'	107'	RB
191	105130567				22'	152'	RB
192	105130567				22'	400'	RB
193	105130572				22'	104'	RB
194	105130570		13:14		22'	217'	RB
195	105130570		13:25		22'	216'	RB
196	105130570		13:37		22'	87'	RB
197	105130577		13:49		22'	128'	RB
198	105130577		14:02		22'	216'	RB
199	105130577		14:15		22'	212'	RB
200	105130577		14:26	Cell Floor	22'	4'	RB
201	105130601	11/15	13:40	N. Slope extending	22'	555'	RB
202	105130593		14:00	onto cell floor	22'	555'	RB
203	105130608		14:12		22'	555'	RB
204	105130569		14:25		22'	555'	RB
205	105130541		14:36		22'	555'	RB
206	105130585	11/16	12:42	N. Slope onto	22'	554'	RB
207	105130602		12:55	Cell Floor	22'	554'	RB
208	105130607		13:08		22'	554'	RB
209	105130605		13:21		22'	554'	RB
210	105130578		13:36		22'	554'	RB
211	105130651	11/17	13:04	N. Slope	22'	555'	RB
212	105130663		13:15	onto cell floor	22'	555'	RB
213	105130638		13:26		22'	555'	RB
214	105130640		13:38		22'	555'	RB
215	105130685		13:49		22'	555'	RB
216	105130606		14:03		22'	555'	RB
217	105130273	11/18	12:47		22'	555'	RB
218	105130649		12:59		22'	555'	RB
219	105130648		13:12		22'	555'	RB
220	105130680		13:24		22'	555'	RB
221	105130664		13:57		22'	555'	RB

APPROXIMATE AREA: THIS PAGE: 296,846 FT² ACCUMULATED: 1,458,622 FT²

NOTES: _____

Geosyntec consultants

DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: _____ PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
222	105130696	11/19	12:36	Cell Floor	22'	464'	
223	105130670		12:48		22'	464'	
224	105130653		13:01		22'	464'	
225	105130653		13:16		22'	83 [redacted]	83'
226	105130646		13:34		22'	96'	
227	105130670		13:46		22'	88'	
228	105130692		13:59		22'	62'	
229	105130715		14:07		22'	57'	
230	105130590		14:18		22'	39'	
231	105150707		14:28		22'	52'	
		[redacted]					
232	105130671	11/20	09:36	S. Slope onto	22'	203'	
233	105130679		09:48	Cell Floor	22'	203	
234	105130679		10:02		22'	140'	
235	105130678		10:15		22'	57'	
236	105130678		10:27		22'	193	
237	105130678		10:39		22'	190	
238	105130687		10:53		22'	480'	
239	105130647		11:06		22'	482	
240	105130678		11:18		22'	62'	
241	105130635	27	11:31		22'	[redacted]	124'
242	105130299	11/[redacted]	10:38	Cell Floor	22'	480	
243	105130677		10:51		22'	474'	
244	105130669		11:03		22'	480	
245	105130681		11:15		22'	483	
246	105136686		11:27		22'	483'	
247	105130686		11:40		22'	63'	
248	105130681		11:52		22'	66'	
249	105130669		12:01		22'	71	
250	105130667		12:10		22'	73	
251	105130299		12:18		22'	77'	
252	105130687		12:25		22'	81'	

313 06.47

APPROXIMATE AREA: THIS PAGE: 150,238 FT² ACCUMULATED: 1,608,860 FT²

NOTES: _____

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DENISONMINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: PRODUCT TYPE: 60mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
253	10513 0647	11/27	12:35	Cell Floor	22'	76'	
254	10513 0626	11/29	09:36	Cell Floor	22'	498'	
255	10513 0666		09:48		22'	498'	
256	10513 0671		10:01		22'	499'	
257	10513 0676		10:14		22'	500'	
258	10513 0676		10:27		22'	51'	
259	10513 0671		10:41		22'	53	
260	10513 0666		10:56		22'	53	
261	10513 0626		11:09		22'	54	
262	10513 0699		11:12		22'	59'	
263	10513 0711		11:28		22'	57'	
264	10513 0705		11:40		22'	56'	
265	10513 0695		11:49		22'	42'	
266	10513 0581		11:56		22'	45'	
267	10513 0574		12:03		22'	34	
268	10513 0684		12:14	Cell Floor onto S.	22'	18	
269	10513 0684		12:24	Slope	22'	178'	
270	10513 0684		12:33		22'	172'	
271	10513 0677		12:41		22'	169'	
272	10513 0677		12:50		22'	164'	
273	10513 0677	11/30	13:01		22'	162'	
274	10513 0655		10:34		22'	161'	
275	10513 0655		10:45		22'	159'	
276	10513 0655		10:58		22'	157'	
277	10513 0673		11:10		22'	113	
278	10513 0673	12/03	13:34	S. E. Slope	22'	111'	
279	10513 0673		13:45	Corner	22'	76'	
280	10513 0673		13:55		22'	41'	
281	10513 0673		14:06		22'	24'	
282	10513 0672		14:11		22'	136'	
283	10513 0672		14:20		22'	134'	
284	10513 0672		14:31		22'	128'	

APPROXIMATE AREA: THIS PAGE: 102,916 FT² ACCUMULATED: 1,711,776 FT²

NOTES:

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: _____ PRODUCT TYPE: 60mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
285	105130672	12/03	14:40	E. Slope	22'	29	BB
286	105130672		14:50		22'	111	BB
287	105130674		15:01		22'	111'	BB
288	105130674		15:12		22'	109'	BB
289	105130674		15:21		22'	107'	BB
290	105130674		15:30		22'	106'	BB
291	105130637	12/04	09:14	Cell Floor	22'	436'	BB
292	105130637		09:25		22'	45'	BB
293	105130641		09:36		22'	365'	BB
294	105130637		09:44		22'	[redacted]	33' BB
295	105130641		09:56		22'	[redacted]	178' BB
296	105130612		10:05		22'	126'	BB
297	105130612		10:16		22'	270'	BB
298	105130612		10:27		22'	39'	BB
299	105130612		10:38		22'	115'	BB
300	105130674		10:49		22'	44'	BB
301	105130635	12/05	13:06	E. Slope	22'	104'	BB
302	105130635		13:16		22'	104'	BB
303	105130635		13:26		22'	103'	BB
304	105130623		13:37		22'	102'	BB
305	105130623		13:45		22'	101'	BB
306	105130623		13:55		[redacted] 22'	100'	BB
307	105130623		14:06		22'	100'	BB
308	105130623		14:17		22'	99'	BB
309	105130665		14:28		22'	98'	BB
310	105130665		14:38		22'	97'	BB
311	105130665		14:50		22'	96'	BB
312	105130665		14:59		22'	96'	BB
313	105130665		15:08		22'	95'	BB
314	105130643	12/06	12:36	Toe of E. Slope	22'	8'	BB
315	105130643		12:47	E. Slope	22'	108'	BB
316	105130643		12:58		22'	113'	BB

APPROXIMATE AREA: THIS PAGE: 82,456 FT² ACCUMULATED: 1,794,232 FT²

NOTES: _____

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY ☐ SECONDARY ☑ OTHER: _____ PRODUCT TYPE: 60mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
317	105130643	12/06	13:07	E. Slope	22	118'	BS
318	105130643		13:16		22	124'	BS
319	105130675		13:26		22	130	BS
320	105130675		13:35	To be welded in spring	22	124	BS
321	105130675		13:44		22	128	BS
322	105130675		13:56		22'	131'	BS
323	105130652		14:05		22'	138'	BS
324	105130652		14:13		22'	8'	BS
325	105130652		14:24		22'	154'	BS
326	105130652		14:35		22'	162'	BS
327	105130620		14:46		22'	172	BS

APPROXIMATE AREA: THIS PAGE: 30,558 FT² ACCUMULATED: 1,824,790 FT²

NOTES: _____

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DENISONMINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY ☐ SECONDARY ☑ OTHER: PRODUCT TYPE: 60mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
328	3128	6/9	1305	textured / sump risers	22'	127	BS
~~337~~	0661	6/12	1000	N. B Slope			
329	0661	6/12	1080	N. Slope	22'	917	WW
330	0241	"	1010	"	"	305	WW
331	0661	"	1020	"	"	133	WW
332	0269	"	1030	"	"	128	WW
333	0571	"	1040	"	"	28	WW
334	0269	"	1050	"	"	291	WW
335	0571	"	1100	"	"	330	WW
336	0298	"	1110	"	"	93	WW
337	~~0661~~ 0587	"	1120	"	"	38	WW
338	~~0243~~ 0682	"	1130	"	"	368	WW
339	~~0682~~ 0243	"	1140	"	"	90	WW
340	~~0269~~ 0682	"	1150	"	"	173	WW
341	~~0582~~ 0229	"	1200	"	"	81	WW
342	~~0243~~ 0229	"	1210	"	"	87	WW
343	0243	"	1220	"	"	38	WW
344	0645	6/13	1020	"	22	271	BR
345	0582	"	1026	Cell Floor	~~22~~	68	BR
346	0582	"	1031	N. Slope	"	118	BR
347	0582	"	1037	Cell Floor	"	64	BR
348	0618	"	1044	Cell Floor	"	42	BR
349	0618	"	1049	N. Slope	"	119	BR
350	0624	"	1055	"	"	103	BR
351	0624	"	1101	"	"	87	BR
352	0624	"	1108	"	"	71	BR
353	0624	"	1116	"	"	55	BR
354	0624	"	1123	NE Slope corner	"	36	BR
355	0618	"	1130	"	"	162	BR

APPROXIMATE AREA: THIS PAGE: 86,196 FT² ACCUMULATED: 1,910,986 FT²

NOTES:

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY ☐ SECONDARY ☑ OTHER: PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
356	0618	6/13	1158	N.E. Slope Corner	22	172	BS
357	0624	"	1146	"	22	175	BS
358	0615	"	1155	"	22	22	BS
359	3862	"	1205	"	22	35	BS
360	3862	"	1213	"	22	48	BS
361	0615	"	1220	E. Slope	22	62	BS
362	0615	"	1228	"	22	76	BS
363	0615	"	1302	"	22	86	BS
364	0615	"	1310	"	22	92	BS
365	0615	"	1317	"	22	92	BS
366	0615	"	1325	"	22	92	BS
367	0657	"	1334	"	22	92	BS
368	0657	"	1340	"	22	92	BS
369	0657	"	1347	"	22	92	BS
370	0657	"	1353	"	22	92	BS
371	0657	"	1358	"	22	93	BS
372	0625	"	1403	"	22	93	BS
373	0625	"	1409	"	22	94	BS
374	0625	"	1414	"	22	94	BS
375	0625	"	1418	"	22	94	BS
376	0625	"	1422	"	22	95	BS

APPROXIMATE AREA: THIS PAGE: 39,402 FT² ACCUMULATED: 1,950,388 FT²

NOTES:

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.	DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 1	10510 0280	28-Apr	0615	North Slope	22	555	BB
P 2	10510 0308	28-Apr	0640	North Slope	22	555	BB
P 3	10510 0529	28-Apr	0700	North Slope	22	555	BB
P 4	10510 0234	28-Apr	0710	North Slope	22	555	BB
P 5	10510 0318	28-Apr	0722	North Slope	22	555	BB
P 6	10510 0319	28-Apr	0734	North Slope	22	555	BB
P 7	10510 0533	28-Apr	0746	North Slope	22	555	BB
P 8	10510 0293	28-Apr	0800	North Slope	22	555	BB
P 9	10510 0522	28-Apr	0814	North Slope	22	555	BB
P 10	10510 0281	28-Apr	0832	North Slope	22	555	BB
P 11	10510 0526	28-Apr	0847	North Slope	22	555	BB
P 12	10510 0312	28-Apr	0925	North Slope	22	555	BB
P 13	10510 0531	28-Apr	1030	North Slope	22	555	BB
P 14	10510 0228	28-Apr	1046	North Slope	22	555	BB
P 15	10510 0507	28-Apr	1100	North Slope	22	555	BB
P 16	10510 0512	28-Apr	1205	North Slope	22	555	BB
P 17	10510 0282	28-Apr	1218	North Slope	22	555	BB
P 18	10510 0523	28-Apr	1232	North Slope	22	555	BB
P 19	10510 0240	28-Apr	1305	North Slope	22	555	BB
P 20	10510 0247	28-Apr	1410	North Slope	22	555	BB
P 21	10510 0633	28-Apr	1425	North Slope	22	555	BB
P 22	10510 0279	28-Apr	1438	North Slope	22	555	BB
P 23	10510 0314	28-Apr	1505	North Slope	22	555	BB
P 24	10510 0536	29-Apr	0615	North Slope	22	555	BB
P 25	10510 0285	29-Apr	0630	North Slope	22	555	BB
P 26	10510 0288	29-Apr	0648	North Slope	22	555	BB
P 27	10510 0614	29-Apr	0703	North Slope	22	555	BB
P 28	10510 0655	29-Apr	0735	North Slope	22	555	BB
P 29	10510 0515	29-Apr	0810	North Slope	22	555	BB
P 30	10510 0290	29-Apr	0835	North Slope	22	555	BB
P 31	10510 0508	29-Apr	0910	North Slope	22	555	BB
P 32	10510 0294	29-Apr	0924	North Slope	22	555	BB
P 33	10510 0654	29-Apr	0945	North Slope	22	555	BB
P 34	10510 0518	29-Apr	1006	North Slope	22	555	BB
P 35	10510 0616	29-Apr	1023	North Slope	22	555	BB
P 36	10510 0644	29-Apr	1038	North Slope	22	555	BB
P 37	10510 0268	29-Apr	1054	North Slope	22	555	BB
P 38	10510 0278	29-Apr	1112	North Slope	22	555	BB

APPROXIMATE AREA THIS PAGE: 463,980.0 (sq ft) ACCUMULATED: 463,980.0 (sq ft)
Notes: ML PAGE 1 OF 13

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.	DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 39	10510 0257	29-Apr	1126	North Slope	22	555	BB
P 40	10510 0632	29-Apr	1215	North Slope	22	555	BB
P 41	10510 0659	29-Apr	1236	North Slope	22	555	BB
P 42	10510 0310	29-Apr	1255	North Slope	22	555	BB
P 43	10510 0630	29-Apr	1320	North Slope	22	555	BB
P 44	10510 0239	29-Apr	1346	North Slope	22	555	BB
P 45	10510 0227	30-Apr	0615	North Slope	22	555	BB
P 46	10510 0260	30-Apr	0628	North Slope	22	555	BB
P 47	10510 0613	30-Apr	0645	North Slope	22	555	BB
P 48	10510 0532	30-Apr	0710	North Slope	22	555	BB
P 49	10510 0244	30-Apr	0734	North Slope	22	555	BB
P 50	10510 0256	30-Apr	0805	North Slope	22	555	BB
P 51	10510 0636	30-Apr	0839	North Slope	22	555	BB
P 52	10510 0245	30-Apr	0851	North Slope	22	555	BB
P 53	10510 0510	30-Apr	1004	North Slope	22	555	BB
P 54	10510 0242	30-Apr	1020	North Slope	22	555	BB
P 55	10510 0295	1-May	0615	North Slope	22	555	BB
P 56	10510 0660	1-May	0655	North Slope	22	555	BB
P 57	10510 0312	1-May	0705	North Slope	22	186	BB
P 58	10510 0269	1-May	0716	Cell Floor	22	230	BB
P 59	10510 0312	1-May	0755	Cell Floor	22	77	BB
P 60	10510 0312	1-May	0804	Cell Floor	22	230	BB
P 61	10510 0511	1-May	0848	Cell Floor	22	525	BB
P 62	10510 0315	1-May	0950	Cell Floor	22	525	BB
P 63	10510 0315	1-May	1006	Cell Floor	22	30	BB
P 64	10510 0513	1-May	1021	Cell Floor	22	495	BB
P 65	10510 0513	2-May	0615	Cell Floor West End	22	66	BB
P 66	10510 0316	2-May	0626	Cell Floor West End	22	453	BB
P 67	10510 0316	2-May	0639	Cell Floor West End	22	93	BB
P 68	10510 0305	2-May	0652	Cell Floor West End	22	432	BB
P 69	10510 0305	2-May	0708	Cell Floor West End	22	120	BB
P 70	10510 0517	2-May	0713	Cell Floor West End	22	403	BB
P 71	10510 0517	2-May	0739	Cell Floor West End	22	148	BB
P 72	10510 9474	2-May	0758	Cell Floor West End	22	311	BB
P 73	10510 9474	2-May	0812	Cell Floor West End	22	169	BB
P 74	10510 9465	2-May	0825	Cell Floor West End	22	366	BB
P 75	10510 9465	2-May	0841	Cell Floor West End	22	195	BB
P 76	10510 9466	2-May	0853	Cell Floor West End	22	340	BB

APPROXIMATE AREA THIS PAGE: 338,448.0 (sq ft) ACCUMULATED: 802,428.0 ✓ (sq ft)
Notes: ML PAGE 2 OF 13

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.	DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 77	10510 9466	2-May	0908	Cell Floor, West End	22	225	BB
P 78	10510 9472	2-May	0922	Cell Floor, West End	22	311	BB
P 79	10510 9472	2-May	0940	Cell Floor, West End	22	251	BB
P 80	10510 9443	2-May	0950	Cell Floor, West End	22	287	BB
P 81	10510 9443	2-May	1005	Cell Floor, West End	22	271	BB
P 82	10510 9450	2-May	1020	Cell Floor, West End	22	259	BB
P 83	10510 9450	2-May	1036	Cell Floor, West End	22	298	BB
P 84	10510 9444	2-May	1050	Cell Floor, West End	22	226	BB
P 85	10510 9444	2-May	1104	Cell Floor, West End	22	320	BB
P 86	10510 9445	2-May	1118	Cell Floor, West End	22	202	BB
P 87	10510 9445	2-May	1032	Cell Floor, West End	22	355	BB
P 88	10510 9464	2-May	1147	Cell Floor, West End	22	168	BB
P 89	10510 9464	2-May	1245	Cell Floor, West End	22	382	BB
P 90	10510 9458	2-May	1304	Cell Floor, West End	22	141	BB
P 91	10510 9458	2-May	1322	Cell Floor, West End	22	409	BB
P 92	10510 9448	2-May	1336	Cell Floor, West End	22	116	BB
P 93	10510 9448	2-May	1349	Cell Floor, West End	22	439	BB
P 94	10510 0269	2-May	1401	Cell Floor, West End	22	84	BB
P 95	10510 9478	2-May	1419	Cell Floor, West End	22	523	BB
P 96	10510 0291	2-May	1434	Cell Floor, West End	22	538	BB
P 97	10510 0291	2-May	1449	Cell Floor	22	38	BB
P 98	10510 0317	2-May	1503	Cell Floor	22	500	BB
P 99	10510 0317	3-May	0615	Cell Floor	22	24	BB
P 100	10510 9475	3-May	0624	Cell Floor	22	485	BB
P 101	10510 9475	3-May	0638	Cell Floor	22	77	BB
P 102	10510 9455	3-May	0650	Cell Floor	22	419	BB
P 103	10510 9455	3-May	0706	Cell Floor	22	104	BB
P 104	10510 0263	3-May	0722	Cell Floor	22	415	BB
P 105	10510 0263	3-May	0736	Cell Floor	22	127	BB
P 106	10510 0253	3-May	0754	Cell Floor	22	395	BB
P 107	10510 0253	3-May	0810	Cell Floor	22	130	BB
P 108	10510 0631	3-May	0825	Cell Floor	22	373	BB
P 109	10510 0631	3-May	0842	Cell Floor	22	180	BB
P 110	10510 9461	3-May	0855	Cell Floor	22	347	BB
P 111	10510 9461	3-May	0908	Cell Floor	22	207	BB
P 112	10510 9441	3-May	0924	Cell Floor	22	292	BB
P 113	10510 9441	3-May	0938	Cell Floor	22	232	BB
P 114	10510 9471	3-May	0952	Cell Floor	22	302	BB

APPROXIMATE AREA THIS PAGE: 229,944.0 (sq ft) ACCUMULATED: 1,032,372.0 (sq ft)
Notes: ML PAGE 3 OF

Geosyntec consultants

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER sc-0349 TASK NO.: 3-Feb
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.	DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 115	10510 9471	3-May	1004	Cell Floor	22	246	BB
P 116	10510 0252	3-May	1023	Cell Floor	22	277	BB
P 117	10510 0252	3-May	1055	Cell Floor	22	270	BB
P 118	10510 9463	5-May	0634	Cell Floor	22	264	BB
P 119	10510 9462	5-May	0616	Cell Floor	22	297	BB
P 120	10510 9463	5-May	0631	Cell Floor	22	241	BB
P 121	10510 9462	5-May	0644	Cell Floor	22	236	BB
P 122	10510 0520	5-May	0700	Cell Floor	22	312	BB
P 123	10510 0520	5-May	0716	Cell Floor	22	216	BB
P 124	10510 9460	5-May	0731	Cell Floor	22	194	BB
P 125	10510 9460	5-May	0748	Cell Floor	22	354	BB
P 126	10510 0262	5-May	0805	Cell Floor	22	173	BB
P 127	10510 0262	5-May	0821	Cell Floor	22	372	BB
P 128	10510 0302	5-May	0836	Cell Floor	22	155	BB
P 129	10510 0302	5-May	0852	Cell Floor	22	390	BB
P 130	10510 0303	5-May	0908	Cell Floor	22	138	BB
P 131	10510 0303	5-May	0924	Cell Floor	22	409	BB
P 132	10510 0309	5-May	0938	Cell Floor	22	118	BB
P 133	10510 0309	5-May	0953	Cell Floor	22	430	BB
P 134	10510 0289	5-May	1008	Cell Floor	22	98	BB
P 135	10510 0289	5-May	1022	Cell Floor	22	451	BB
P 136	10510 0519	5-May	1039	Cell Floor	22	451	BB
P 137	10510 0519	5-May	1056	Cell Floor	22	77	BB
P 138	10510 0267	5-May	1110	Cell Floor	22	59	BB
P 139	10510 0267	5-May	1124	Cell Floor	22	492	BB
P 140	10510 0271	5-May	1139	Cell Floor	22	36	BB
P 141	10510 0271	5-May	1156	Cell Floor	22	517	BB
P 142	10510 0304	5-May	1210	Cell Floor	22	10	BB
P 143	10510 0304	5-May	1227	Cell Floor	22	536	BB
P 144	10510 0320	6-May	0615	Cell Floor	22	527	BB
P 145	10510 0225	6-May	0627	Cell Floor	22	527	BB
P 146	10510 0321	6-May	0640	Cell Floor	22	528	BB
P 147	10510 0321	6-May	0654	Cell Floor	22	18	BB
P 148	10510 0524	6-May	0711	Cell Floor	22	518	BB
P 149	10510 0524	6-May	0725	Cell Floor	22	31	BB
P 150	10510 0564	6-May	0742	Cell Floor	22	493	BB
P 151	10510 0525	6-May	0755	Cell Floor	22	439	BB
P 152	10510 0564	6-May	0811	Cell Floor	22	65	BB

APPROXIMATE AREA THIS PAGE: 241,230.0 (sq ft) ACCUMULATED: 1,273,602.0 (sq ft)

Notes: PAGE 4 OF 13

ML

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.		DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 153	10510	0534	6-May	0824	Cell floor	22	385	BB
P 154	10510	0525	6-May	0840	Cell floor	22	105	BB
P 155	10510	0516	6-May	0852	Cell floor	22	247	BB
P 156	10510	0534	6-May	0907	Cell floor	22	170	BB
P 157	10510	0286	6-May	0921	Cell floor	22	22	BB
P 158	10510	0286	6-May	0937	Cell floor	22	128	BB
P 159	10510	0516	6-May	0952	Cell floor	22	258	BB
P 160	10510	0286	6-May	1005	Cell floor	22	330	BB
P 161	10510	0516	6-May	1019	Cell floor	22	25	BB
P 162	10510	0266	6-May	1033	Cell floor	22	255	BB
P 163	10510	0266	6-May	1048	Cell floor	22	53	BB
P 164	10510	0266	6-May	1102	Cell floor	22	164	BB
P 165	10510	0266	6-May	1117	Cell floor	22	26	BB
P 166	10510	0275	6-May	1135	Cell floor	22	198	BB
P 167	10510	0275	6-May	1146	Cell floor	22	19	BB
P 168	10510	0275	6-May	1248	Cell floor	22	151	BB
P 169	10510	0275	6-May	1302	Cell floor	22	25	BB
P 170	10510	0275	6-May	1321	Cell floor	22	150	BB
P 171	10510	0269	6-May	1338	Cell floor	22	45	BB
P 172	10510	0269	6-May	1351	Cell floor	22	74	BB
P 173	10510	0269	6-May	1406	Cell floor	22	38	BB
P 174	10510	0269	6-May	1423	Cell floor	22	18	BB
P 175	10510	0528	7-May	0615	South Slope	22	132	BB
P 176	10510	0528	7-May	0628	South Slope	22	132	BB
P 177	10510	0528	7-May	0645	South Slope	22	131	BB
P 178	10510	0528	7-May	0658	South Slope	22	131	BB
P 179	10510	0254	7-May	0713	South Slope	22	131	BB
P 180	10510	0254	7-May	0727	South Slope	22	131	BB
P 181	10510	0254	7-May	0741	South Slope	22	131	BB
P 182	10510	0254	7-May	0758	South Slope	22	131	BB
P 183	10510	0521	7-May	0812	South Slope	22	131	BB
P 184	10510	0521	7-May	0827	South Slope	22	131	BB
P 185	10510	0521	7-May	0843	South Slope	22	131	BB
P 186	10510	0521	7-May	0857	South Slope	22	131	BB
P 187	10510	0604	7-May	0910	South Slope	22	131	BB
P 188	10510	0604	7-May	0925	South Slope	22	131	BB
P 189	10510	0604	7-May	0941	South Slope	22	131	BB
P 190	10510	0604	7-May	0955	South Slope	22	130	BB

APPROXIMATE AREA THIS PAGE: 109,626.0 (sq ft) ACCUMULATED: 1,383,228.0 (sq ft)
Notes: PAGE 5 OF 13

ML

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0349 TASK NO.: 0203
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] _____ PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.	DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 191	10510 0287	7-May	1008	South Slope	22	130	BB
P 192	10510 0287	7-May	1021	South Slope	22	130	BB
P 193	10510 0287	7-May	1042	South Slope	22	133	BB
P 194	10510 0287	7-May	1103	South Slope	22	133	BB
P 195	10510 0587	7-May	1124	South Slope	22	133	BB
P 196	10510 0587	8-May	0618	South Slope	22	133	BB
P 197	10510 0587	8-May	0634	South Slope	22	133	BB
P 198	10510 0587	8-May	0650	South Slope	22	133	BB
P 199	10510 0610	8-May	0708	South Slope	22	132	BB
P 200	10510 0610	8-May	0815	South Slope	22	132	BB
P 201	10510 0610	8-May	0826	South Slope	22	132	BB
P 202	10510 0610	8-May	0840	South Slope	22	132	BB
P 203	10510 0227	8-May	0856	South Slope	22	130	BB
P 204	10510 0227	8-May	0912	South Slope	22	128	BB
P 205	10510 0227	8-May	0920	South Slope	22	127	BB
P 206	10510 0227	8-May	0928	South Slope	22	126	BB
P 207	10510 0629	8-May	0934	South Slope	22	126	BB
P 208	10510 0629	8-May	0940	South Slope	22	125	BB
P 209	10510 0629	8-May	0945	South Slope	22	125	BB
P 210	10510 0629	8-May	0950	South Slope	22	124	BB
P 211	10510 0586	8-May	0955	South Slope	22	124	BB
P 212	10510 0586	8-May	1000	South Slope	22	123	BB
P 213	10510 0586	8-May	1006	South Slope	22	123	BB
P 214	10510 0586	8-May	1011	South Slope	22	123	BB
P 215	10510 0634	8-May	1018	South Slope	22	123	BB
P 216	10510 0634	8-May	1025	South Slope	22	123	BB
P 217	10510 0634	8-May	1030	South Slope	22	122	BB
P 218	10510 0634	8-May	1036	South Slope	22	120	BB
P 219	10510 0301	9-May	0615	South Slope	22	120	BB
P 220	10510 0301	9-May	0625	South Slope	22	121	BB
P 221	10510 0301	9-May	0634	South Slope	22	122	BB
P 222	10510 0301	9-May	0645	South Slope	22	126	BB
P 223	10510 0292	9-May	0656	South Slope	22	114	BB
P 224	10510 0571	9-May	0705	South Slope	22	101	BB
P 225	10510 0571	9-May	0712	South Slope	22	66	BB
P 226	10510 0292	9-May	0721	South Slope	22	35	BB
P 227	10510 0292	9-May	0727	South Slope	22	7	BB
P 228	10510 0292	9-May	0740	South Slope	22	130	BB

APPROXIMATE AREA THIS PAGE: 99,440.0 (sq ft) ACCUMULATED: 1,482,668.0 (sq ft)

Notes: _____

ML

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0039 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.	DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 229	10510 0628	9-May	0752	South East Corner	22	129	BB
P 230	10510 0628	9-May	0805	South East Corner	22	94	BB
P 231	10510 0628	9-May	0821	South East Corner	22	50	BB
P 232	10510 0628	9-May	0834	East Slope	22	111	BB
P 233	10510 0628	9-May	0850	East Slope	22	111	BB
P 234	10510 0658	9-May	0904	East Slope	22	110	BB
P 235	10510 0658	9-May	0920	East Slope	22	110	BB
P 236	10510 0658	9-May	0934	East Slope	22	109	BB
P 237	10510 0658	9-May	0950	East Slope	22	108	BB
P 238	10510 0658	9-May	1002	East Slope	22	107	BB
P 239	10510 0650	9-May	1014	East Slope	22	106	BB
P 240	10510 0650	9-May	1024	East Slope	22	105	BB
P 241	10510 0650	9-May	1033	East Slope	22	105	BB
P 242	10510 0650	9-May	1041	East Slope	22	105	BB
P 243	10510 0650	9-May	1050	East Slope	22	104	BB
P 244	10510 0627	9-May	1058	East Slope	22	104	BB
P 245	10510 0627	9-May	1109	East Slope	22	103	BB
P 246	10510 0627	9-May	1120	East Slope	22	102	BB
P 247	10510 0627	9-May	1129	East Slope	22	101	BB
P 248	10510 0627	9-May	1139	East Slope	22	100	BB
P 249	10510 0297	9-May	1150	East Slope	22	98	BB
P 250	10510 0297	9-May	1200	East Slope	22	97	BB
P 251	10510 0297	9-May	1241	East Slope	22	96	BB
P 252	10510 0297	9-May	1250	East Slope	22	95	BB
P 253	10510 0297	9-May	1300	East Slope	22	94	BB
P 254	10510 0589	9-May	1311	East Slope	22	94	BB
P 255	10510 0589	9-May	1320	East Slope	22	94	BB
P 256	10510 0589	9-May	1330	East Slope	22	93	BB
P 257	10510 0589	9-May	1412	East Slope	22	90	BB
P 258	10510 0589	9-May	1429	East Slope	22	91	BB
P 259	10510 0571	9-May	1450	East Slope	22	91	BB
P 260	10510 0571	9-May	1513	East Slope	22	91	BB
P 261	10510 0270	12-May	0620	S.E. Corner	22	300	BB
P 262	10510 0579	12-May	0630	Cell Floor	22	546	BB
P 263	10510 0255	12-May	0642	S.E. Corner	22	364	BB
P 264	10510 0270	12-May	0655	Cell Floor - W. End	22	243	BB
P 265	10510 0571	12-May	0710	Cell Floor - W. End	22	120	BB
P 266	10510 0527	12-May	0718	Cell Floor - W. End	22	300	BB

APPROXIMATE AREA THIS PAGE: 111,562 (sq ft) ACCUMULATED: 1,594,230.0 (sq ft)
Notes: PAGE 7 OF 13

ML

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.	DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 267	10510 0255	12-May	0730	Cell Floor - W. End	22	114	BB
P 268	10510 0527	12-May	0740	Cell Floor - W. End	22	210	BB
P 269	10510 0255	12-May	0752	Cell Floor - W. End	22	63	BB
P 270	10510 0301	12-May	0806	Cell Floor - W. End	22	60	BB
P 271	10510 0527	12-May	0815	Cell Floor - W. End	22	43	BB
P 272	10510 0292	12-May	0826	Cell Floor - W. End	11	38	BB
P 273	10510 0292	12-May	0841	Cell Floor - W. End	22	155	ML
P 274	10510 9446	14-May	0709	N.W. Corner	22	147	ML
P 275	10510 9446	14-May	0720	N.W. Corner	22	116	ML
P 276	10510 9446	14-May	0732	N.W. Corner	22	69	ML
P 277	10510 9446	14-May	0734	N.W. Corner	11	42	ML
P 278	10510 0243	14-May	0807	N.W. Corner	11	43	ML
P 279	10510 0243	14-May	0752	W. sideslope, corner area	22	57	ML
P 280	10510 0243	14-May	0820	N.W. Corner, w. sideslope	22	81	ML
P 281	10510 0243	14-May	0833	W. Sideslope	22	99	ML
P 282	10510 9446	14-May	0745	W. Sideslope	22	115	ML
P 283	10510 0243	14-May	0850	W. Sideslope	22	118	ML
P 284	10510 0277	14-May	0903	W. Sideslope	22	122	ML
P 285	10510 0277	14-May	0915	W. Sideslope	22	131	ML
P 286	10510 0277	14-May	0930	W. Sideslope	22	121	ML
P 287	10510 0277	14-May	0942	W. Sideslope	22	120	ML
P 288	10510 0248	14-May	0957	W. Sideslope	22	118	ML
P 289	10510 0248	14-May	1010	W. Sideslope	22	117	ML
P 290	10510 0248	14-May	1021	W. Sideslope	22	117	ML
P 291	10510 0243	14-May	1030	W. Sideslope	22	116	ML
P 292	10510 0322	14-May	1050	W. Sideslope	22	116	ML
P 293	10510 0322	14-May	1056	W. Sideslope	22	116	ML
P 294	10510 0322	14-May	1102	W. Sideslope	22	116	ML
P 295	10510 0322	14-May	1111	W. Sideslope	22	116	ML
P 296	10510 0223	14-May	1130	W. Sideslope	22	116	ML
P 297	10510 0223	14-May	1137	W. Sideslope	22	116	ML
P 298	10510 0223	14-May	1147	W. Sideslope	22	115	ML
P 299	10510 0223	14-May	1156	W. Sideslope	22	115	ML
P 300	10510 0229	14-May	1213	W. Sideslope	22	115	ML
P 301	10510 0229	14-May	1325	W. Sideslope	22	115	ML
P 302	10510 0229	14-May	1347	W. Sideslope	22	115	ML
P 303	10510 0229	14-May	1355	W. Sideslope	22	115	ML
P 304	10510 0251	14-May	1412	W. Sideslope	22	115	ML

APPROXIMATE AREA THIS PAGE: 86,020 (sq ft) ACCUMULATED: ~~1,681,603.0~~ (sq ft) 1,680,250
Notes: ML PAGE 8 OF 13

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PANEL PLACEMENT LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NUMBER SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY [X] SECONDARY [ ] OTHER [ ] _____ PRODUCT TYPE 60 mil

PANEL NO.	BATCH/ROLL NO.		DATE day/mo	TIME	PLACEMENT LOCATION COMMENTS	APPROX WIDTH (ft)	APPROX LENGTH (ft)	QA ID
P 305	10510	0251	14-May	1500	W. Sideslope	22	115	ML
P 306	10510	0251	14-May	1518	W. Sideslope	22	115	ML
P 307	10510	0251	14-May	1531	W. Sideslope	22	115	ML
P 308	10510	0284	14-May	1601	W. Sideslope	22	115	ML
P 309	10510	0284	14-May	1616	W. Sideslope	22	115	ML
P 310	10510	0284	15-May	0705	W. Sideslope	22	116	ML
P 311	10510	0284	15-May	0720	W. Sideslope	22	116	ML
P 312	10510	0298	15-May	0735	W. Sideslope	22	116	ML
P 313	10510	0298	15-May	0748	W. Sideslope	22	115	ML
P 314	10510	0298	15-May	0807	W. Sideslope	22	115	ML
P 315	10510	0298	15-May	0828	W. Sideslope	22	115	ML
P 316	10510	0283	16-May	0624	W. Sideslope	22	110	ML
P 317	10510	0283	16-May	0636	W. Sideslope	22	110	ML
P 318	10510	0283	16-May	0650	W. Sideslope	22	111	ML
P 319	10510	0283	16-May	0703	W. Sideslope	22	114	ML
P 320	10510	0241	16-May	0715	W. Sideslope	22	117	ML
P 321	10510	0241	16-May	0729	W. Sideslope	22	120	ML

APPROXIMATE AREA THIS PAGE: 42,900 (sq ft) ACCUMULATED: 1,723,150 (sq ft)
Notes: ML PAGE 9 OF 13

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DENISON MINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY ◢ SECONDARY ☐ OTHER: _____ PRODUCT TYPE: HDPE geomembrane

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
292	0322	5/14	1050	W. sideslope	22'	116	ML
293	0322	"	1056	"	"	116	ML
294	0322	"	1102	"	"	116	ML
295	0322	"	1111	"	"	116	ML
296	0223	"	1130	"	"	116	ML
297	0223	"	1137	"	"	116	ML
298	0223	"	1147	"	"	115	ML
299	0223	"	1156	"	"	115	ML
300	0229	"	1213	"	"	115	ML
301	0229	"	1325	"	"	115	ML
302	0229	"	1347	"	"	115	ML
303	0229	"	1355	"	"	115	ML
304	0251	"	1412	"	"	115	ML
305	0251	"	1500	"	"	115	ML
306	0251	"	1518	"	"	115	ML
307	0251	"	1531	"	"	115	ML
308	0284	"	1601	"	"	115	ML
309	0284	"	1616	"	"	115	ML
310	0284	5/15	0705	"	"	116	ML
311	0284	"	0720	"	"	116	ML
312	0298	"	0735	"	"	116	ML
313	0298	"	0748	"	"	115	ML
314	0298	"	0807	"	"	115	ML
315	0298	"	0828	"	"	115	ML
316	0283	5/16	0624	"	"	110	ML
317	0283	"	0636	"	"	110	ML
318	0283	"	0650	"	"	111	ML
319	0283	"	0703	"	"	114	ML
320	0241	"	0715	"	"	117	ML
321	0241	"	0729	"	"	120	ML
322	0582	6/11	1015	S. Side slope	22'	146	WW
323	0582	6/11	1025	S. Side Slope	22'	166	WW

APPROXIMATE AREA: THIS PAGE: 68164 FT² ACCUMULATED: 1,730,014 FT²

NOTES: panels 292 to 321 are entered electronically and totaled on sheet 9

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DENISONMINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY ■ SECONDARY □ OTHER: _____ PRODUCT TYPE: HDPE Geomembrane

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
324	0582	6/11	1045	S. Side Slope	22'	166	WW
325	0580	6/11	1100	"	22'	139	WW
326	0580	6/11	1125	"	22'	123	WW
327	0580	"	1130	"	22'	26'	WW
328	0580	"	1135	"	22'	53'	WW
329	0580	"	1140	"	22'	67'	WW
330	0580	"	1145	"	22'	96'	WW
331	0128	"	1000	Textured	22'	195'	WW
332	0583	"	1330	W. Side Slope	22'	56'	WW
333	0583	"	1345	"	22'	94'	WW
334	0583	"	1400	"	22'	132'	WW
335	0583	"	1405	"	22'	158'	WW
336	0583	"	1415	"	22'	151'	WW
337	0583	"	1500	"	8'	18'	WW

337 → 7AC

APPROXIMATE AREA: THIS PAGE: 30,712 FT² ACCUMULATED: 1,760,726 FT²

NOTES: _____

* ADD ON

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DENISONMINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY ☑ SECONDARY ☐ OTHER: _____ PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
337	3862	6/17	0610	Cell Floor + N. Slope	22	463	BR
338	3861	"	0615	Cell Floor	"	83	BR
339	9449	"	0622	N. Slope onto Cell Floor	"	543	BR
340	3861	"	0630	"	"	390	BR
341	0657	"	0639	Cell Floor	"	73	BR
342	0248	"	0647	"	"	463	BR
343	3859	"	0656	Cell Floor onto N. Slope	"	472	BR
344	3861	"	0704	Cell Floor	"	71	BR
345	3060	"	0715	N. Slope onto Cell Floor	"	463	BR
346	3859	"	0725	Cell Floor	"	63	BR
347	3863	"	0735	N Slope onto Cell Floor	"	347'	BR
348	3859	"	0746	Cell Floor	"	82'	BR
349	3859	"	0757	"	"	51	BR
350	~~3863~~ 0261	"	0810	N Slope onto Cell Floor	"	250	BR
351	3863	"	0816	Cell Floor	"	278	BR
352	0261	"	0823	N Slope onto Cell Floor	"	294	BR
353	0597	"	0831	Cell	"	34'	BR
354	3863	"	0839	Cell Floor	"	59	BR
355	0597	"	0850	N. Slope	"	285	BR
356	0264	"	0858	NE corner	"	224	BR
357	0264	"	0907	NE Corner	"	~~68~~ 122'	BR
358	0517	"	0915	NE Corner	"	107	BR
359	0584	"	0924	NE Corner	"	90	BR
360	0584	"	0935	NE Corner	"	75'	BR
361	0597	"	0945	NE Corner	"	61	BR
362	0264	"	0953	NE Corner	"	30	BR
363	~~0597~~ 0597	"	1001	"	"	165	BR
364	0584	"	1012	"	"	178	BR
365	0584	"	1022	"	"	192	BR
366	0597	"	1030	Cell Floor	"	176	BR
367	0662	"	1042	E. Slope	"	191	BR
368	0662	"	1054	"	"	193	BR

APPROXIMATE AREA: THIS PAGE: 144,672 FT² ACCUMULATED: 1,905,398 FT²

NOTES: _____

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DENISONMINES

PANEL PLACEMENT LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY ☑ SECONDARY ☐ OTHER: _____ PRODUCT TYPE: 60 mil HDPE

PANEL NO.	BATCH / ROLL NO.	DATE (day/mo)	TIME	PLACEMENT LOCATION COMMENTS	WIDTH	LENGTH	QA ID
369	0662	6/17/08	1102	E. Slope	22	93	
370	0662	"	1110	"	22	93	
371	0662	"	1118	"	22	93	
372	0603	6/18	0610	E. Slope	22	93	
373	0603	"	0616	"	"	93	
374	0603	"	0625	"	"	93	
375	0603	"	0635	"	"	93	
376	0603	"	0647	"	"	93	
377	9470	"	0658	"	"	93	
378	9470	"	0709	"	"	100	
379	9470	"	0720	"	"	105	
380	9470	"	0732	"	"	98	
81	9470	"	0745	"	"	86	
382	0620	"	0756	N.E. corner	"	76	
383	0620	"	0805	"	"	63	
384	0620	"	0816	"	"	45	
385	9470	"	0828	"	"	35	
386	9470	"	0840	"	"	18	

APPROXIMATE AREA: THIS PAGE: 32,186 FT² ACCUMULATED: 1,937,584 FT²

NOTES: _____

APPENDIX F-8

PRODUCTION SEAMING LOGS

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DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A Extrusion YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: _____ psi ± _____ psi for _____ minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/6	11:32	74-15	S.C.	126/128	0'	22'	22'	RS	0-22'	VT OK	AT	✓		AT	RS
	11:45	74-15	S.C.	127/128	0'	14'	14'	RS	0-14'	VT OK	AT	✓			RS
	14:10	74-15	S.C.	112/128	0'	20'	20'	RS	0-20'	VT OK	AT	✓			RS
	15:35	74-15	S.C.	128/129	0'	24'	24'	RS	0-24'	VT OK	AT	✓			RS
	10:45	74-15	S.C.	96/128	0'	22'	22'	RS	0-22'	VT OK	AT	✓			RS
	11:15	74-15	S.C.	97/128	0'	13'	13'	RS	0-13'	VT OK	AT	✓			RS
↓	11:07	74-15	S.C.	96/129	0	17'	17'	RS	0-17'	VT OK	AT	✓		↓	RS

TOTALS: FUSION: _____ (ft) CUMULATED FUSION: _____ (ft)

EXTRUSION 132' (ft) CUMULATED EXTRUSION: 132 (ft)

COMMENTS:

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DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: 30 psi for minimum ____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/9	1650 pm	00775-37	GG	P1/P2	Top Slope	Bottom Slope	~~125~~ 125		[redacted]	0-91-125'	EV	✓		30/30 AT	ML
10/10	am	00775-37	GG	P2/P3	Top Slope	Bottom Slope	125'	BB	25'-150	[redacted] BB 30/30	EV	✓		AT	BB
	11:15 am	00775-37	GG	P3/P4	Top Slope	Bottom Slope	125'	BB	0-125'	30/30	EV	✓			BB
	1130 am	75-26	RR	P4/P5	Top Slope	Bottom Slope	[redacted] 125		[redacted] BB 30/30 0-19-102-125'		EV	✓			BB
	1200 pm	75-37	GG	P5/P6	Top Slope	Bottom Slope	125'		0-125'	30/30	EV	✓			BB
	1342 pm	75-37	GG	P6/P7	Top Slope	Bottom Slope	125'		0-125'	30/29	EV	✓			BB
	1358 pm	75-26	R.R.	P7/P8	Top Slope	Bottom Slope	125'		0-125'	30/30	EV	✓			BB
10/11	10:00 am	75-37	G.G.	P8/P9	Top Slope	Bottom Slope	125'		0-125'	30/29	EV	✓			BB
	10:15	75-26	R.R.	P9/P10	Top Slope	Bottom Slope	125'		0-125'	30/29	EV	✓			BB
	10:28	75-37	G.G	P10/P11	Top Slope	Bottom Slope	125'		0-125'	30/30	EV	✓			BB
	10:50 am	75-26	R.R.	P11/P12	Top Slope	Bottom Slope	125'		0-125'	30/30	EV	✓			BB
	11:05	75-37	G.G.	P12/P13	Top Slope	Bottom Slope	125'		0-125'	30/30	EV	✓			BB
	11:11	75-26	RR	P13/P14	Top Slope	Bottom Slope	125'		0-125'	30/30	EV	✓			BB
	11:48	75-26	RR	P14/15	Top Slope	Bottom Slope	125'		0-125'	30/29	EV	✓			BB
	12:13	75-25	GG	P15/16	Top Slope	Bottom Slope	125'		0-125'	30/29	EV	✓			BB
	12:20	75-20	RR	P16/17	Top Slope	Bottom Slope	125'		0-125'	30/30	EV	✓			BB

TOTALS: FUSION: ~~1875~~ 2000 (ft) CUMULATED FUSION: ~~1875~~ 2000 (ft)

EXTRUSION: ____ (ft) CUMULATED EXTRUSION: ____ (ft)

COMMENTS: ____

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DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/11	12:35	75-25	G.G.	panel 17/18	0'	125'	125'	RS	0-125'		EV	✓		AT	RS
10/12	09:10	75-25	G.G.	7/19	0'	122'	122'	RS			EV	✓			RS
	09:20	75-26	R.R	19/20	0'	108'	108'	RS			EV	✓			RS
	09:40	75-25	G.G.	20/21	0'	89'	89'	RS			EV	✓			RS
	09:50	75-26	R.R	21/22	0'	67'	67'	RS			EV	✓			RS
	10:15	75-25	G.G.	22/23	0'	37'	37'	RS			EV	✓			RS
	11:52	75-25	G.G.	23/24	0'	36'	36'	RS			EV	✓			RS
	11:58	75-25	G.G.	22/24	0'	7'	7'	RS			EV	✓			RS
	12:05	75-25	G.G.	22/25	0'	23'	23'	RS			EV	✓			RS
	12:09	75-25	G.G.	21/25	0'	25'	25'	RS			EV	✓			RS
	12:12	75-25	G.G.	21/26	0'	5'	5'	RS			EV	✓			RS
	12:15	75-25	G.G.	20/26	0'	30'	30'	RS			EV	✓			RS
	12:18	75-25	G.G.	19/26	0'	16'	16'	RS			EV	✓			RS
	12:20	75-25	G.G.	19/27	0'	7'	7'	RS			EV	✓			RS
↓	11:29	75-25	G.G.	24/25	0	45'	45'	RS			EV	✓		↓	RS

TOTALS: FUSION: 742 ✓ (ft) CUMULATED FUSION: 2617 2742 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/12	10:50	75-25	GG	P25/26	Top	Bottom	~~152~~ 103'	BB	0-103'	30/30	EV	✓		AT	BB
1	10:40	75-26	RR	26/27	Top	Bottom	149'	BB	0-110'-142'	30/30/30/29	EV	✓		↓	BB
10/15/07	10:30	75-26	RR	P28/29	~~Bottom~~ Top	0'	402'	BB	0-90'-402'	30/30 30/29	EV	✓			BB
	10:40	75-37	GG	28/18	0	15'	15'	BB	0-15'	30/30	EV	✓			BB
				28/17	15'	36'	21'	~~21~~ BB	15'-36'	30/30	EV	/			BB
				28/16	36'	60'	24'	BB	36'-60'	30/30	EV	/			BB
				28/15	60'	82'	22'	BB	60-82'	30/30	EV	/			BB
				28/14	82	105'	23'	BB	82-105'	30/29	EV	/			BB
				28/13	105'	128'	23'	BB	105-128'	30/29	EV	/			BB
				28/12	128'	150'	22'	BB	128-150'	~~30~~/29	EV	/			BB
				28/11	150'	172'	22'	BB	150-172'	30/30	EV	/			BB
				28/10	172'	194'	22'	BB	172-194'	30/30	EV	/			BB
				28/9	194'	216'	22'	BB	194-216'	30/29	EV	/			BB
				28/8	216'	238'	22'	BB	216-238'	30/30	EV	/			BB
				28/7	238'	261	23'	BB	238-261'	30/30	EV	/			BB
				28/6	261'	283'	22'	BB	261-283	30/29	EV	/		↓	BB

TOTALS: FUSION: 937 ✓ (ft) CUMULATED FUSION: 3706 3679 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/15	09:14	75-37	G.G.	28/5	283'	305'	22'	BB	283-305'	30/30	EV	✓		AT	BB
	09:43			28/4	305'	327'	22'	BB	305-327'	30/30	EV	✓			BB
	10:18			28/3	327'	349'	22'	BB	327-349'	30/29	EV	✓			BB
	16:52			28/2	349'	371'	22'	BB	349-371'	30/29	EV	✓			BB
	4:34			28/1	371'	393'	22'	BB	371-393'	30/29	EV	✓			BB
	10:47	75-25	M.G.	29/30	406'	0'	406'	BB	@406'-100-95:0	30/29	EV	✓			BB
	12:07	75-25	M.G.	30/31	410'	0'	410'	BB	410-390-0'	30/30 30/29	EV	✓			BB
	12:47	75-26	R.R.	31/32	136'	0'	136'	BB	0-136'	30/30	EV	✓			BB
	12:28	75-15	R.R.	32/33	0	22'	22'	BB	0-22'	30/29	EV	✓			
	12:50	75-31	G.G.	33/34	137'	0'	137'	BB	0-137'	30/30	EV	✓			BB
	13:16	75-26	R.R.	34/35	67'	0'	67'	BB	0-67'	30/29	EV	✓			BB
	14:25	75-31	G.G.	27/36	148'	0'	148'	BB	0-148	30/29	EV	✓			BB
	14:58	75-25	M.G.	36/37	150'	0'	150'	BB	0-150	30/30	EV	✓			BB
10/16	09:27	75-26	R.R.	35/38	52'	0'	52'	BB	0-52'	30/29	EV	✓			BB
	09:19	75-25	M.G.	38/39	565'	0'	565'	BB	0-486-565	30/29 30/30	EV	✓			BB
	09:38	75-31	G.G.	39/40	565'	0'	565'	BB	0-565'	30/30	EV	✓		↓	ML

TOTALS: FUSION: 2768 ✓ (ft) CUMULATED FUSION: 6474 6447 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/16	10:14	75-26	RR	30/38	0	70'	70'	RR	0-70'	30/30	EV	✓		AT	RR
	10:06	75-26	RR	31/38	0	98'	98'	RR	0-98'	30/29	EV	✓		↓	RR
	09:49	75-26	RR	32/38	0	38'	38'	RR	0-38'	30/30	EV	✓			RR
	09:36	75-26	RR	34/38	0	105'	105'	RR	0-105'	30/30	EV	✓			RR
10/17	08:53	75-25	M.G.	42/43	0	560'	560'	RR	0-560'	30/29	EV	✓			RR
	09:10	75-26	R.R.	43/44	0	560'	560'	RR	0-560'	30/29	EV	✓		AT	RR
	10:30	75-31	G.G.	44/47	0	397'	397'	RR	0-397'	30/29	EV	✓		↓	RR
	10:48	75-31	G.G.	44/45	0	160'	160'	RR	0-160'	30/30	EV	✓			
	12:03	75-26	R.R.	45/47	0	22'	22'	RR	0-22'	30/29	EV	✓			RR
	12:14	75-26	R.R.	46/48	0	22'	22'	RR	0-22'	30/28	EV	✓		↓	RR
	10:52	75-25	M.G.	45/46	0	160'	160'	RR	0-160'	30/30	EV	✓			RR
	10:30	75-25	M.G.	47/48	0	397'	397'	RR	0-397'	30/30	EV	✓		AT	RR
	08:30	75-31	G.G.	48/49	0	555'	555'	RR	0-555'	30/30	EV	✓		↓	RR
	08:50	75-26	R.R.	49/50	0	555'	555'	RR	0-555'	30/29	EV	✓			RR
	09:36	75-25	M.G.	50/51	0	555'	555'	RR	0-555'	30/28	EV	✓			RR
	10:46	75-31	G.G.	51/52	0	555'	555'	RR	0-555'	30/29	EV	✓		↓	RR

TOTALS: FUSION: ~~4695~~ 4809 (ft) CUMULATED FUSION: ~~11,125~~ 11,256 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/18	11:10	75-26	R.R.	52|53	555'	~~550'~~ 0'	555'	BB	0-555'	30|29	EV	✓		AT	BB
10/19	08:40	75-26	R.R.	53|54	555'	0'	555'	BB	0-555'	30|29	EV	✓		↓	BB
	08:46	75-31	G.G.	54|55	555'	0'	555'	BB	0-555'	30|29	EV	✓			BB
	09:12	75-25	M.G.	55|56	555'	0'	555'	BB	0-555'	30|30	EV	✓			BB
	10:25	75-31	G.G.	56|57	555'	0'	555'	BB	0-555'	30|29	EV	✓			BB
	10:43	75-25	M.G.	57|58	554'	0'	554'	BB	0-555'	30|30	EV	✓		↓	BB
10/20	~~07:18~~ 08:10	75-31	G.G.	~~58|59~~ 59|60	550'	0'	550'	BB	①						
	08:25	75-26	R.R.	59|60	550'	0	550'	BB	①						
	~~08:49~~ 08:30	75-25	M.G.	60|61	550'	0'	550'	BB	①						
	~~10:30~~ 09:56	75-31	G.G.	61|62	550'	0'	550'	BB	①						
	08:52	75-26	R.R.	62|63	550	0'	550'	BB	①						
10/15	15:39	75-25	M.G.	29|36	0	17'	17'	BB	~~0-15'~~ 0-17'	30|30	EV	✓		AT	BB
10/15	15:34	75-25	M.G.	30|37	0	15'	15'	BB	0-15'	30|30	EV	✓			BB
10/15	12:32	75-26	R.R.	31|33	0	140'	140'	BB	0-140'	30|30	EV	✓			BB
10/16	11:13	75-31	G.G.	40|41	564'	0'	564'	BB	0-564'	30|30	EV	✓			BB
10/17	08:43	75-31	G.G.	41|42	562'	0'	562'	BB	0-562'	30|30	EV	✓		↓	BB

TOTALS: FUSION: 7379 ✓ (ft) CUMULATED FUSION: ~~18,502~~ 18,635 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: ① Testing performed by Contractor, data not collected; destructive tests on weld passed.

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/22	14:45	75-26	R.P.	63/64	550'	0'	550	BB	550'-0'	30/30	EV	✓		AT	BB
	14:43	75-25	M.G.	64/65	550'	0'	550	BB	550'-0'	30/30	EV	✓			BB
	14:46	75-31	G.G.	65/66	550'	0'	550	BB	550'-0'	30/29	EV	✓			BB
	15:00	75-50	D.C.	66/67	550'	0'	550	BB	550'-0'	30/30	EV	✓			BB
	16:02	75-25	M.G.	67/68	550'	0'	550	BB	550'-0'	30/30	EV	✓			BB
10/23	14:21	75-31	G.G.	68/69	555'	0'	555'	BB	555'-0'	30/30	EV	✓			BB
	14:30	75-26	R.P.	69/70	555'	0'	555'	BB	555'-0'	30/30	EV	✓			BB
	14:45	75-25	M.G.	70/71	555'	0'	555'	BB	555'-0'	30/29	EV	✓			BB
	15:00	75-50	D.C.	71/72	555'	0'	555'	BB	555'-0'	29/30	EV	✓			BB
	16:21	75-31	G.G.	72/73	555'	0'	555'	BB	555'-363'-0'	30/30-30/29	EV	✓			BB
10/25	14:36	75-31	G.G.	181/74	0	121'	121'	BB	0'-121'	30/30	EV	✓			BB
	14:46	75-25	M.G.	74/75	0	121'	121'	BB	0'-121'	30/30	EV	✓			BB
	15:00	75-50	D.C.	75/76	0	121	121	BB	0'-121'	30/30	EV	✓			BB
	15:20	75-31	G.G.	76/77	0	121'	121'	BB	0'-121'	30/29	EV	✓			BB
	15:28	75-25	M.G.	77/78	0	121	121'	BB	0'-121'	30/30	EV	✓			BB
	15:45	75-50	D.C.	78/79	0	121	121'	BB	0'-121'	30/29	EV	✓		↓	BB

TOTALS: FUSION: 6251 ✓ (ft) CUMULATED FUSION: 24,753 24,886 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/25	16:11	75-31	G.G.	79/80	0'	121'	121'	RD	0'-19'-121'	30/29 30/29	EV	✓		AT	RD
	16:20	75-25	M.G.	80/81	0'	121'	121'	RD	0'-121'	30/29	EV	✓			RD
	16:47	75-25	M.G.	81/82	0'	121'	121'	RD	0'-121'	30/29	EV	✓			RD
	17:07	75-25	M.G.	82/83	0'	121'	121'	RD	0'-121'	30/30	EV	✓			RD
	17:19	75-31	G.G.	83/84	0'	120'	120'	RD	0'-121'	30/30	EV	✓			RD
10/27	10:30	75-31	G.G.	84/85	0'	118'	118'	RD	0'-121'	30/29	EV	✓			RD
	10:52	75-26	R.R.	85/86	0'	117'	117'	RD	0'-121'	30/29	EV	✓			RD
	11:03	75-25	M.G.	86/87	0'	117'	117'	RD	0'-121'	30/30	EV	✓			RD
	11:21	75-31	G.G.	87/88	0'	117'	117'	RD	0'-117'	30/30	EV	✓			RD
	11:42	75-26	R.R.	88/89	0'	117'	117'	RD	0'-117'	30/30	EV	✓			RD
	11:52	75-25	M.G.	89/90	0'	117'	117'	RD	0'-117'	30/29	EV	✓			RD
	12:20	75-31	G.G.	90/91	0'	117'	117'	RD	0'-117'	30/29	EV	✓			RD
	12:25	75-26	R.R.	91/92	0'	117'	117'	RD	0'-117'	30/30	EV	✓			RD
	13:48	75-25	M.G.	92/93	0'	117'	117'	RD	0'-117'	30/30	EV	✓			RD
	13:56	75-31	G.G.	93/94	0'	117'	117'	RD	0'-117'	30/29	EV	✓			RD
	14:27	75-26	R.R.	94/95	0'	117'	117'	RD	0'-117'	30/30	EV	✓			RD

TOTALS: FUSION: 1892 ✓ (ft) CUMULATED FUSION: ~~26,695~~ 26,778 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/30	10:06	75-25	M.G.	79/102	274'	296'	22'	BB		30/29	EV	/		AT	BB
	10:09	75-25	M.G.	78/102	296'	318'	22'	BB		30/29	EV	/			BB
	10:13	75-25	M.G.	77/102	318'	340'	22'	BB		30/29	EV	/			BB
	10:16	75-25	M.G.	76/102	340'	362'	22'	BB		30/29	EV	/			BB
	10:19	75-25	M.G.	75/102	362	384'	22'	BB		30/29	E.V.	/			BB
	10:23	75-25	M.G.	74/102	384'	406'	22'	BB		30/30	E.V.	/			BB
	10:28	75-25	M.G.	18/102	406'	420' max	14'	BB		30/29	E.V.	/			BB
	10:59	75-31	G.G.	28/102	0'	15'	15'	BB		30/29	E.V.	/			BB
	10:57	75-31	G.G.	29/102	0'	7'	7'	BB		30/30	E.V.	/			BB
	10:54	75-31	G.G.	29/103	0'	15'	15'	BB		30/29	E.V.	/			BB
	11:16	75-31	G.G.	30/103	0'	7'	7'	BB		30/30	EV	/			BB
	11:15	75-31	G.G.	30/104	0'	15'	15'	BB		30/30	E.V.	/			BB
	11:12	75-31	G.G.	31/104	0'	7'	7'	BB		30/30	E.V.	/			BB
	10:16	75-31	G.G.	31/105	0'	15'	15'	BB		30/29	E.V.	/			BB
	~~11:45~~ 10:40	75-31	G.G.	33/105	0'	7'	7'	BB		30/30	EV	/			BB
	11:45	75-31		33/106	0'	16'	16'	BB		30/29	EV	/			BB

34/106

TOTALS: FUSION: 250 ✓ (ft) CUMULATED FUSION: ~~26,895~~ 26,028 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST					
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS / FAIL	ACTION	QA ID
10/30	11:08	75-31	G.G.	112/113	0'	236' 236'		BB	0'-236'	30/30	E.V.	✓	AT	BB
	11:57	75-26	R.R.	113/114	0'	254'	254'	BB	0'-254'	30/30	E.V.	✓		BB
	11:20	75-25	M.G.	114/115A	0	135'	135'	BB	0'-135'	30/30	E.V.	✓		BB
	09:10	75-25	M.G.	92/102	0	10'	10'	BB	0'-10'	30/30	E.V.	✓		BB
	09:11	75-25	M.G.	91/102	10	32'	22'	BB	10'-32'	30/30	E.V.	✓		BB
	09:12	75-25	M.G.	90/102	32'	54'	22'	BB	32'-54'	30/30	E.V.	✓		BB
	09:16	75-25	M.G.	89/102	54'	76'	22'	BB	54'-76'	30/30	E.V.	✓		BB
	09:20	75-25	M.G.	88/102	76'	98'	22'	BB	76'-98'	30/30	E.V.	✓		BB
	09:23	75-25	M.G.	87/102	98'	120'	22'	BB	98'-120'	30/29	E.V.	✓		BB
	09:26	75-25	M.G.	86/102	120'	142'	22'	BB	120'-142'	30/30	E.V.	✓		BB
	09:44	75-25	M.G.	85/102	142'	164'	22'	BB	142'-164'	30/29	E.V.	✓		BB
	09:50	75-25	M.G.	84/102	164'	186'	22'	BB	164'-186'	30/30	E.V.	✓		BB
	09:53	75-25	M.G.	83/102	186'	208'	22'	BB	186'-208'	30/29	E.V.	✓		BB
	09:56	75-25	M.G.	82/102	208'	230'	22'	BB	208'-230'	30/30	E.V.	✓		BB
	09:59	75-25	M.G.	81/102	230	252'	22'	BB	230'-252'	30/29	E.V.	✓		BB
	10:03	75-25	M.G.	80/102	252	274'	22'	BB	252'-274'	30/29	E.V.	✓		BB

TOTALS: FUSION: 899 ✓ (ft) CUMULATED FUSION: 27,794 27,927 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: 268 (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/27	14:33	75-25	M.G.	95/96	0'	132'	132'	BB	0-132'	30/29	E.V.	/		AT	BB
	14:55	75-31	G.G.	96/97	0'	119'	119	BB	0'-119'	30/30	E.V.	/			BB
	15:07	75-26	R.R.	97/98	0'	107'	107'	BB	0'-107'	30/30	E.V.	/			BB
	15:25	75-25	M.G.	98/99	0'	80'	80'	BB	0'-80'	30/29	E.V.	/			BB
	15:30	75-31	G.G.	99/100	0'	54'	54'	BB	0-54'	30/30	E.V.	/			BB
	15:47	75-31	G.G.	100/101	0'	24'	24'	BB	0-24'	30/30	E.V.	/			BB
10/30	~~09:10~~	~~75-25~~	~~M.G.~~	~~101/102~~	~~0'~~	~~420'~~	EC								
	09:12	75-37	D.C.	102/103	0'	420'	420	BB	0-420	30/29	E.V.	/		AT	BB
	09:26	75-31	G.G.	103/104	0	420'	420		0-420	30/29	E.V.	/			BB
	09:36	75-26	R.R.	104/105	0	420'	420	BB	0-420'	30/30	E.V.	/			BB
	10:25	75-37	D.C.	105/106	0	420	420'	BB	0-420'	30/30	E.V.	/			BB
	13:20	75-37	D.C.	107/108	0'	34'	34'	BB	0-34'	30/30	E.V.	/			BB
	13:02	75-31	G.G.	108/109	0'	63'	63'	BB	0-63'	30/30	E.V.	/			BB
	12:59	75-37	D.C.	109/110	0'	91'	91'	BB	0-91'	30/30	E.V.	/			BB
	12:44	75-25	M.G.	110/111	0'	116'	116'	BB	0-116'	30/29	E.V.	/			BB
	12:10	75-37	D.C.	111/112	0'	154'	134'	BB	0-154'	30/29	E.V.	/			BB

TOTALS: FUSION: 2634 ✓ (ft) CUMULATED FUSION: ~~30,428~~ 30,561 (ft)

EXTRUSION _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for .5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/3	09:18	75-25	M.G.	133/135	0'	91'	91'	RB	0-91'	30/30	EV	✓		AT	RB
	09:16	75-25	M.G.	133/136	0'	14'	14'	RB	0-14'	30/29	EV	✓			RB
10/31	18:22	75-37	D.C.	92/127	0'	12'	12'	RB	0-12'	30/30	EV	✓			RB
	18:25	75-37	D.C.	93/127	0'	23'	23'	RB	0-23'	30/30	EV	✓			RB
	18:29	75-37	D.C.	99/127	0'	15'	15'	RB	0-15'	30/30	EV	✓			RB
	18:13	75-37	D.C.	95/127	0	25'	25'	RB	0-25'	30/30	EV	✓			RB
11/1	08:57	75-25	M.G.	127/120	0'	72'	72'	RB	0-72'	30/30	EV	✓			RB
	10:02	75-31	G.G.	129/130	0'	5'	5'	RB	0-5'	30/30	EV	✓			RB
	10:28	75-31	G.G.	112/129	0'	27'	27'	RB	0-27'	30/29	EV	✓			RB
	10:34	75-31	G.G.	112/130	0'	39'	39'	RB	0-39'	30/30	EV	✓			RB
	10:41	75-31	G.G.	112/127	0'	22'	22'	RB	0-22'	30/30	EV	✓			RB
	09:57	75-25	M.G.	105/127	0'	13'	13'	RB	0-13'	30/29	EV	✓			RB
10/31	06:10	75-31	G.G.	102/127	0'	22'	22'	RB	0-22'	30/30	EV	✓			RB
	09:10	75-31	G.G.	103/112	0	19'	19'	RB	0-19'	30/30	EV	✓			RB
	09:03	75-31	G.G.	103/113	0'	15'	15'	RB2	0-15'	30/30	EV	✓			RB

TOTALS: FUSION: 332 ✓ (ft) CUMULATED FUSION: 30760 30,893 (ft)

EXTRUSION _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/05	15:15	75-26	R.R	132/133	0'	252'	252'	RB	0-252'	30/30	EV	✓		AT	RB
11/5	12:05	75-25	M.G.	133/139	0'	252'	252'	RB	0-252'	30/29	EV	✓			RB
11/5	12:30	75-37	D.C.	139/140	0'	268'	268'	RB	0-268'	30/30	EV	✓			RB
11/5	16:25	75-37	D.C.	140/144	0'	268'	268'	RB	0-268'	30/30	EV	✓			RB
11/5	16:30	75-31	C.G.	144/145	0'	268'	268'	RB	0-268'	30/30	EV	✓			RB
11/5	14:15	75-26	R.R	137/138	0'	412'	412'	RB	0-54'-412'	30/30	EV	✓			RB
11/5	14:24	75-25	M.G.	138/141	0'	412'	412'	RB	0-54-412'	30/30	EV	✓			RB
11/5	15:05	75-37	D.C.	141/142	0'	413'	413'	RB	0-413'	30/30	EV	✓			RB
11/5	15:41	75-25	M.G.	142/143	0'	413'	413'	RB	0-54'-412'	30/30	EV	✓			RB
11/5	16:20	75-26	R.R.	136/139	0'	13'	13'	RB	0-13'	30/30	EV	✓			RB
11/6	16:45	75-26	R.R.	145/146	0'	268'	268'	RB	0-268'	30/30	EV	✓			RB
11/6	07:39	75-25	M.G.	143/146	0'	10'	10'	RB	0'-10'	30/29	EV	✓			RB
	07:43	75-25	M.G.	146/142	0'	12'	12'	RB	0'-12'	30/30	EV	✓			RB
	07:46	75-25	M.G.	145/142	0'	9'	9'	RB	0'-9'	30/29	EV	✓			RB
	07:48	75-25	M.G.	145/141	0'	12'	12'	RB	0'-12'	30/30	EV	✓			RB
	07:50	75-25	M.G.	144/141	0'	10'	10'	RB	0-10'	30/30	EV	✓		↓	RB

TOTALS: FUSION: 3292 ✓ (ft) CUMULATED FUSION: ~~31089~~ 34,185 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
10/31	W:02	75-25	M.G.	115/116	0'	~~134'~~	~~134'~~	BB	0-134'	30/30	EV	✓		AT	BB
	11:35	75-26	R.R.	116/117	0	250'	250'	BB	0-250'	30/30	EV	✓			BB
	11:50	75-37	D.C.	117/118	0'	248'	248'	BB	0-248'	30/30	EV	✓			BB
	11:55	75-25	M.G.	118/119	0	248'	248'	BB	0-248'	30/30	EV	✓			BB
	12:40	75-26	R.R.	119/120	0	248'	248'	BB	0-248	30/30	EV	✓			BB
	17:25	75-37	D.C.	107/126	0	127'	127'	BB	0-127'	30/29	EV	✓			BB
	17:40	75-31	G.C.	101/126	0'	125'	125'	BB	0-125'	30/30	EV	✓			BB
	11:03	75-25	M.G.	115a/116	134'	248'	114	BB	0-114'	30/30	EV	✓			BB
	11:16	75-26	R.R.	115/115a	0'	22'	22'	BB	0-22'	30/30	EV	✓			BB
	11:32	75-25	M.G.	119/115a	0'	113'	113'	BB	0'-113'	30/30	EV	✓			BB
11/2	14:16	75-26	R.R.	120/131	0'	252'	252'	BB	0'-252'	30/29	EV	✓			BB
	~~14:55~~	75-25	M.G.	131/132	0'	252'	252'	BB	0-252'	30/30	EV	✓			BB
	15:15	75-26	R.R.	132/133	0'	252'	252'	BB	0-252'	30/30	EV	✓			BB
11/3	09:28	75-25	M.G.	131/134	0'	14'	14'	BB	0-14'	30/30	EV	✓			BB
	09:22	75-25	M.G.	132/134	0'	9'	9'	BB	0-9	30/30	EV	✓			BB
	09:20	75-25	M.G.	132/135	0'	14'	14'	BB	0-14'	30/29	EV	✓			BB

TOTALS: FUSION: 2422 ✓ (ft) CUMULATED FUSION: ~~33511~~ 36,607 (ft)

EXTRUSION _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/6	07:52	75-25	M.G.	144/138	0'	12'	12'	RB	0-12'	30/30	EV	✓		AT	RB
	07:53	75-25	M.G.	140/138	0'	11'	11'	RB	0-11'	30/30	EV	✓			RB
	07:55	75-25	M.G.	140/137	0	12'	12'	RB	0-12'	30/30	EV	✓			RB
	07:58	75-25	MG	139/137	0'	11'	11'	RB	0-11'	30/30	EV	✓			RB
	08:20	75-26	R.R.	47/137	0	19	19'	RB	0'-19'	30/29	EV	✓			RB
	4:18	75-26	R.R.	47/138	0'	4'	4'	RB	0'-4'	Repair	VT OK		AT		RB
	4:16	75-26	R.R.	48/138	0'	18'	18'	RB	0'-18'	30/30	EV	✓			RB
	4:13	75-26	R.R.	48/141	0'	4'	4'	RB	0'-4'	30/30	EV	✓			RB
	4:12	75-26	R.R.	49/141	0'	19'	19'	RB	0'-19'	30/30	EV	✓			RB
	4:09	75-26	R.R.	49/142	0'	4'	4'	RB	Repair	VT OK	AT	✓			RB
	4:08	75-26	R.R.	50/142	0'	19'	19'	RB	0'-19'	30/30	EV	✓			RB
	4:06	75-26	R.R.	50/143	0'	4'	4'	RB	Repair	VT OK	AT	✓			RB
	4:05	75-26	R.R.	51/143	0	18'	18'	RB	0-18'	30/29	EV	✓			RB
11/7	10:15	75-27	DC	143/147	0'	441	441'	RB	0'-441'	30/29	EV	✓			RB
	10:28	75-26	R.R.	147/148	0'	440'	440'	RB	0'-440'	30/30	EV	✓			RB
	11:04	75-25	M.G.	148/149	0'	440'	440'	RB	0'-440'	30/30	EV	✓			RB

TOTALS: FUSION: ~~1076~~ 1476 (ft) CUMULATED FUSION: ~~34087~~ 38,083 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/7	11:35	75-37	D.C.	149/150	0'	440'	440'	RB	0-440'	30/30	EV	✓		AT	RB
	12:50	75-26	R.R.	150/151	0'	440'	440'	RB	0-440'	30/30	EV	✓			RB
	14:02	75-31	G.G.	146/152	0'	251'	251'	RB	0-251'	30/30	EV	✓			RB
	14:07	75-25	M.G.	152/153	0'	251'	251'	RB	0-251'	30/30	EV	✓			RB
	14:30	75-26	R.R.	153/154	0'	251'	251'	RB	0-251'	30/30	EV	✓			RB
	14:48	75-31	G.G.	154/155	0'	251'	251'	RB	0-251'	30/30	EV	✓			RB
	15:14	75-25	M.G.	155/157	0'	208'	193	RB	0-208'	30/30	EV	✓			RB
	15:28	75-25	R.M.	155/156	0'	43'	43'	RB	0-43'	30/30	EV	✓			RB
	15:20	75-26	R.R.	156/157	0'	22'	22'	RB	0-22'	30/30	EV	✓			RB
11/8	07:15	75-31	G.G.	151/156	0'	11'	11'	RB	0-11'	30/30	EV	✓			RB
	07:17	75-31	G.G.	150/156	0'	11'	11'	RB	0-11'	30/30	EV	✓			RB
	07:19	75-31	G.G.	150/155	0'	11'	11'	RB	0-11'	30/30	EV	✓			RB
	07:20	75-31	G.G.	149/155	0'	12'	12'	RB	0-12'	30/30	EV	✓			RB
	07:22	75-31	G.G.	149/154	0'	10'	10'	RB	0-11	30/30	EV	✓			RB
	07:24	75-31	G.G.	148/154	0'	12'	12'	RB	P	VISUAL	AT	✓			RB
	07:26	75-31	G.G.	148/153	0'	10'	10'	RB	0-11	30/30	EV	✓		↓	RB

TOTALS: FUSION: 2234 ✓ (ft) CUMULATED FUSION: 36821 40,317 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☒ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/09	11:33	75-26	R.R.	162/161	0'	22'	22'	RB	0-22'	30/30	EV	/		AT	RB
	11:37	75-26	R.R.	161/160	0'	22'	22'	RB	0-22'	30/30	EV	/			RB
	11:45	75-26	R.R.	159/160	0'	22'	22'	RB	0-22'	30/30	EV	/			RB
	11:49	75-26	RR	158/159	0'	22'	22'	RB	0-22'	30/30	EV	/			RB
	11:56	75-26	RR	157/158	0'	21'	21'	RB	0-21'	30/30	EV	/			RB
11/10	07:27	75-25	M.G.	162/169	0'	10'	10'	RB	0-10'	30/30	EV	/			RB
	09:28	75-25	M.G.	161/169	0'	13'	13'	RB	0-13'	30/30	EV	/			RB
	07:31	75-25	M.G.	161/167	0	9'	9'	RB	0-9'	30/30	EV	/			RB
	07:33	75-25	M.G.	160/167	0	14'	14'	RB	0-14'	30/30	EV	/			RB
	07:36	75-25	M.G.	160/166	0	9'	9'	RB	0-9'	30/30	EV	/			RB
	07:37	75-25	M.G.	159/166	0	14'	14'	RB	0-14'	30/30	EV	/			RB
	07:40	75-25	M.G.	159/164	0	9'	9'	RB	0-9'	30/30	EV	/			RB
	07:41	75-25	M.G.	158/164	0	14'	14'	RB	0-14'	30/30	EV	/			RB
	07:43	75-25	M.G.	158/163	0	9'	9'	RB	0-9'	30/30	EV	/			RB
	07:45	75-25	M.G.	151/163	0'	14'	14'	RB	0-14'	30/30	EV	/		↓	RB

TOTALS: FUSION: ~~253~~ 274 (ft) CUMULATED FUSION: ~~37059~~ 40,541 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: ~~36821~~ _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/8	07:29	75-31	G.G.	147/153	0'	12'	12'	RB	0-12'	30/30	EV	✓		AT	
11/8	07:30	75-31	G.G.	147/152	0'	10'	10'	RB	0-10'	30/30	EV	✓			
11/8	07:31	75-31	G.G.	143/152	0	12'	12'	RB	0-12'	30/30	EV	✓			
11/9	09:40	75-31	G.G.	151/158	0'	416	416'	RB	~~0-416~~ 0-416	30/30 30½	EV	✓			
	09:53	75-25	M.G.	158/159	0	414'	414'	RB	0-49-414'	30/30 30/30	EV	✓			
	10:22	75-26	R.R.	159/160	0'	414	414'	RB	0-50-414'	30/30 30/30	EV	✓			
	10:50	75-31	G.G.	160/161	0'	414'	414'	RB	0-414	30/30	EV	✓			
	11:00	75-25	M.G.	161/162	0'	414'	414'	RB	0-414'	30/30	EV	✓			
		~~75-37~~													
	14:24	75-26	R.R.	165/164	0'	22'	22'	RB	~~0-20'~~ 0-20'	30/30	EV	✓			
	13:53	75-37	D.C.	157/163	0'	[redacted]	206'	RB	0-206'	30/30	EV	✓			
	13:59	75-25	M.G.	163/165	0	167'	167'	RB	0-167'	30/30	EV	✓			
	14:20	75-26	R.R.	165/166	0'	167'	167'	RB	0-167	30/30	EV	✓			
	14:40	75-31	G.G.	166/168	0	134'	134'	RB	0-134'	30/30	EV	✓			
	14:52	75-25	M.G.	169/168	0	134'	134'	RB	0-134'	30/30	EV	✓			
	14:52	75-37	D.C.	168/167	0'	22	22'	RB	0-22	30/30	EV	✓		↓	

TOTALS: FUSION: 2958 ✓ (ft) CUMULATED FUSION: ~~40,012~~ 43 499 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/13	07:24	75-25	M.G.	172/182	0'	12'	12'	RB	0-12'	30/30	EV	✓		AT	
	07:26	75-25	M.G.	172/180	0'	10'	10'	RB	0-10'	30/30	EV	✓			
	07:28	75-25	M.G.	171/180	0'	13'	13'	RB	0-13'	30/30	EV	✓			
	07:32	75-25	M.G.	171/179	0'	13'	13'	RB	0-13	30/30	EV	✓			
	07:34	75-25	M.G.	170/179	0'	14'	14'	RB	0-14'	30/30	EV	✓			
	07:37	75-25	M.G.	170/178	0'	8'	8'	RB	0-8'	30/30	EV	✓			
	07:38	75-25	M.G.	162/178	0'	21'	21'	RB	0-21'	30/30	EV	✓			
11 12	14:50	75-25	M.G.	169/178	0	236'	236'	RB	0-110-236	30/30 34/30	EV	✓			
	15:20	75-26	R.R.	178/179	0	240'	240'	RB	0-240'	30/30	EV	✓			
	15:33	75-31	G.G.	179/181	0'	[illegible]	181'	RB	0-58-181'	39/30 30/30	EV	✓			
	15:48	75-25	M.G.	181/182	0'	181'	181'	RB	0-181'	30/30	EV	✓			
	16:00	75-37	D.C.	182/183	0	129'	129'	RB	0-129'	30/30	EV	✓			
	16:20	75-25	M.G.	180/182	0'	51'	51'	RB	0-51'	30/30	EV	✓			
	16:49	75-37	D.C.	179/180	0'	52'	52'	RB	0-52'	30/30	EV	✓			
	18:33	75-37	D.C.	180/181	0'	22'	22'	RB	0-22'	30/30	EV	✓			
	16:18	75-37	D.C.	[illegible]/184	0'	99'	99'	RB	0-99'	30/30	EV	✓			

TOTALS: FUSION: [illegible] 1282 ✓ (ft) CUMULATED FUSION: ~~41294~~ 44 781 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/9	14:40	75-31	G.G.	166/167	0'	111'	111'	RB	0-111'	30/30	EV	✓		AT	
11/7	15:20	75-26	R.R.	156/157	0'	22'	22'	RB	0-22'	30/30	EV	✓			
11/12	09:45	75-31	G.G.	162/170	0'	419'	419'	RB	0-419'	30/30	EV	✓			
	10:07	75-25	M.G.	170/171	0'	419'	419'	RB	0-50-419'	30/30 30/30	EV	✓			
	10:35	75-26	R.R.	171/172	0'	419'	419'	RB	0-54-419'	30/30 30/30	EV	✓			
	11:05	75-37	D.C.	172/173	0'	419'	419'	RB	0-54-419	30/30 30/30	EV	✓			
	10:49	75-31	G.G.	175/174	0'	120'	120'	RB	0-120'	30/30	EV	✓			
	12:40	75-31	G.G.	173/175	0'	128'	128'	RB	0-128	30/30	EV	✓			
	12:10	75-31	G.G.	173/176	0'	164'	164'	RB	0-40-164	30/30 30/30	EV	✓			
	12:05	75-31	G.G.	173/177	0'	27'	27'	RB	0-27'	30/30	EV	✓			
	13:05	75-31	G.G.	174/175	0'	22'	22'	RB	0-22'	30/30	EV	✓			
	11:48	75-31	G.G.	175/176	0'	22'	22'	RB	0-22'	30/30	EV	✓			
	11:56	75-31	G.G.	176/177	0'	22'	22'	RB	0-22'	30/30	EV	✓			
11/13	07:17	75-25	M.G.	177/184	0'	11'	11'	RB	0-11'	30/30	EV	✓			
	07:20	75-25	M.G.	173/184	0'	12'	12'	RB	0-12'	30/30	EV	✓			
	07:22	75-25	M.G.	173/182	0'	11'	11'	RB	0-11'	30/30	EV	✓		↓	

TOTALS: FUSION: 2348 ✓ (ft) CUMULATED FUSION: ~~43,692~~ 47,129 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/12	16:10	75-31	G.G.	185/184	0'	22'	22'	RS	0-22'	30/30	EV	✓		AT	RS
	11:40	75-26	R.R.	66/174	0'	22'	22'	RS	0-22'	30/30	EV	✓			RS
	11:44	75-26	R.R.	65/173	0'	22'	22'	RS	0-22'	30/30	EV	✓			RS
	11:48	75-26	R.R.	64/172	0'	22'	22'	RS	0-22'	30/30	EV	✓			RS
	11:55	75-26	R.R.	63/171	0'	22'	22'	RS	0-22'	30/30	EV	✓			RS
	12:00	75-26	R.R.	62/170	0'	22'	22'	RS	0-22'	30/30	EV	✓		↓	RS
	[redacted]														

TOTALS: FUSION: 132 ✓ (ft) CUMULATED FUSION: ~~43,774~~ 47,261 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☒ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/14	09:55	75-31	G.G.	177/185	0'	26'	26'	KS	0-26'	30/30	EV	✓		AT	KS
	10:00	75-31	G.G.	176/185	26'	188'	162'	KS	26-188'	30/30	EV	✓			KS
	10:15	75-26	R.R.	185/186	0'	440'	440'	KS	0-440'	30/30	EV	✓			KS
	10:23	75-31	G.G.	175/185	188'	317'	129'	KS	188-317'	30/30	EV	✓			KS
	10:46	75-31	G.G.	174/185	317	440'	123'	KS	317-322-405	30/30 34/30	EV	✓			KS
	10:44	75-25	M.G.	186/187	0'	440'	440'	KS	0-440	30/30	EV	✓			KS
	12:57	75-37	D.C.	187/188	0	100'	100	KS	0-100	30/30	EV	✓			KS
	11:15	75-31	G.G.	188/189	0'	22'	22'	KS	0-22'	30/30	EV	✓			KS
	11:29	75-37	D.C.	187/189	107	199	92'	KS	107-192'	30/30	EV	✓			KS
	11:25	75-31	G.G.	189/190	0	22'	22'	KS	0-22'	30/30	EV	✓			KS
	12:00	75-37	D.C.	187/190	0	107	107'	KS	0-107'	30/30	EV	✓			KS
	11:41	75-31	G.G.	190/191	0'	22'	22'	KS	0-22'	30/30	EV	✓			KS
	11:34	75-37	D.C.	187/191	0'	153'	153'	KS	0-153'	30/30	EV	✓			KS
	11:50	75-31	G.G.	191/192	0'	153'	153'	KS	0-153'	30/30	EV	✓			KS
	12:04	75-31	G.G.	192/190	153	259	106'	KS	153-259	30/30	EV	✓			KS
	12:16	75-31	G.G.	192/189	259	350	91'	KS	259-350'	30/30	EV	✓		↓	KS

TOTALS: FUSION: 2188 ✓ (ft) CUMULATED FUSION: ~~45462~~ 49449 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS / FAIL	ACTION	QA ID
11/14	12:25	75-26	R.R	188/193	350	454	104'	RS	350-454	30/30	EV	/		RS
	12:20	75-26	R.R	192/193	0	22'	22'	RS	0-4-22'	30/30 30/30	EV	/		RS
	14:10	75-31	G.G.	72/193	0'	20'	20'	RS	0-20	30/30	EV	/		RS
	14:13	75-31	G.G.	70/189	0'	20'	20'	RS	0-20	30/30	EV	/		ML
	14:16	75-31	G.G.	69/187	0'	21'	21'	RS	0-21	30/30	EV	/		ML
	14:19	75-31	G.G.	68/186	0'	21'	21'	RS	0-21	30/30	EV	/		ML
	14:23	75-31	G.G.	67/185	0'	21'	21'	RS	0-21	30/30	EV	/		ML
	14:22	75-31	M.G.	184/194	0'	[illegible]94	94'	RS	0-94	30/30	EV	/		ML
	14:00	75-25	M.G.	183/194	94	210'	106'	RS	94-210	30/30	EV	/		ML
	14:25	75-26	R.R.	194/195	0'	210'	210'	RS	0-210	30/29	EV	/		ML
	14:40	75-37	D.C.	RS/197	0	127'	127'	RS	0-127	30/30	EV	/		ML
	15:10	75-26	R.R.	197/198	0'	127	127'	RS	0-127	30/30	EV	/		ML
	15:12	75-31	G.G.	198/199	0	209'	209'	RS	0-209	30/29	EV	/		ML
	15:40	75-26	R.R.	196/198	127	209	82'	RS	127-209	30/30	EV	/		ML
	16:01	75-31	G.G.	199/200	0'	22'	22'	RS	0-22	30/30	EV	/		ML
	[illegible]													ML

TOTALS: FUSION: ~~1707~~ 1206 (ft) CUMULATED FUSION: ~~47,799~~ 50,655 (ft)

EXTRUSION _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/14	15:55	75-31	G.G.	199/200	0	9'	9'	RS	0-9'	30/30	EV	✓		AT	RS
	15:58	75-31	G.G.	191/198	0'	12'	12'	RS	0-12'	30/30	EV	✓			RS
	16:00	75-31	G.G.	187/190	0'	10'	10'	RS	0-10'	30/30	EV	✓			RS
	16:02	75-31	G.G.	197/196	0'	12'	12'	RS	0-12'	30/30	EV	✓			RS
	16:04	75-31	G.G.	186/196	0'	10'	10'	RS	0-10'	30/30	EV	✓			RS
	16:07	75-31	G.G.	186/195	0'	12'	12'	RS	0-12'	30/30	EV	✓			RS
	16:10	75-31	G.G.	185/195	0'	11'	11'	RS	0-11'	30/30	EV	✓			RS
	16:12	75-31	G.G.	185/194	0'	11'	11'	RS	0-11'	30/30	EV	✓			RS
	16:15	75-31	G.G.	197/194	0'	11'	11'	RS	0-11	30/30	EV	✓			RS
11/15	15:52	75-31	G.G.	192/200	0'	12'	12'	RS	0-12	30/30	EV	✓			RS
	16:05	75-26	R.R.	73/201	0	555	555	RS	0-13-555	30/30 30/30	EV	✓			ML
	14:23	75-26	R.R.	201/202	0'	555	555	RS	0-30-102-555	30/30 30/30 30/30	EV	✓			RS
	14:30	75-31	G.G.	202/203	0'	555	555	RS	0-555	30/30	EV	✓			RS
	14:38	75-25	M.G.	203/204	0'	555	555	RS	0-555	59/30	EV	✓			RS
	15:25	75-37	D.C.	204/205	0	555	555	RS	0-555	30/30	EV	✓			RS
11/16	13:30	75-31	G.G.	205/206	0	554	554	RS	0-554	30/30	EV	✓		↓	RS

TOTALS: FUSION: 3439 ✓ (ft) CUMULATED FUSION: ~~51,188~~ 54,094 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/16	13:38	75-37	D.C.	206/207	0'	554	554'		0'-554'	30/30	EV	✓		AT	
	13:50	75-25	M.G.	207/208	0	554	554'		0'-554'	30/30	EV	✓			
	14:20	75-26	R.R.	208/209	0	554	554'		0'-554'	30/30	EV	✓			
	14:51	75-31	G.G.	209/210	0	554	554'		0'-554'	30/30	EV	✓			
11/17	14:05	75-25	M.G.	210/211	0'	554	554'		0-554'	30/30	EV	✓			
	14:18	75-26	R.R.	212/213	0'	555'	555'		0-170-555	30/30 30/30	EV	✓			
	14:35	75-37	D.C.	213/214	0'	555'	555'		0-555'	30/30	EV	✓			
	15:48	75-31	G.G.	210/211	0'	555'	555'		0-555	30/30	EV	✓			
	15:15	75-50	EV	214/215	0'	555'	555'		0-555'	30/30	EV	✓			
	15:27	75-31	GG	215/216	0'	555'	555'		0-555'	30/30	EV	✓			
11/18	12:31	75-31	G.G.	216/217	0	555'	555'		0-555'	30/30	EV	✓			
	12:48	75-25	M.G.	217/218	0'	555'	555'		0-555'	30/30	EV	✓			
	13:05	75-37	D.C.	218/219	0	555'	555'		0-555'	30/29	EV	✓			
	13:10	75-26	R.R.	219/220	0	555'	555'		0-555'	30/30	EV	✓			
	14:07	75-31	G.G.	220/221	0'	555'	555'		0-555	30/30	EV	✓			

TOTALS: FUSION: 8320 ✓ (ft) CUMULATED FUSION: 59508 62,214 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
[redacted]															
11/19	14:20	75-26	R.R.	222/~~223~~ 192	0'	397'	397'		0-397	30/32	EV	✓		AT	RS
	15:04	75-25	M.G.	222/223	0'	464'	464'	RS	0-464	30/30	EV	✓			RS
	15:28	75-31	G.G.	223/224	0'	464'	464'	RS	0-464	30/28	EV	✓			RS
	16:52	75-26	R.R.	224/225	0'	83'	83'	RS	0-83	30/30	EV	✓			RS
	17:01	75-31	G.G.	224/226	0'	96'	96'	RS	0-96	30/24	EV	✓			RS
	16:48	75-31	G.G.	224/227	0'	88'	88'	RS	0-88	30/30	EV	✓			RS
	16:59	75-37	D.C.	224/228	0'	62'	62'	RS	0-6-62'	30/30 30/30	EV	✓			RS
	16:49	75-37	D.C.	224/229	0'	91'	91'	RS	0-91'	30/30	EV	✓			RS
	16:38	75-37	D.C.	224/230	0'	37'	37'	RS	0-37	30/30	EV	✓			RS
	16:30	75-37	DC	224/231	0'	86'	86'	RS	0-86'	30/30	EV	✓			RS
	15:18	75-26	RR	195/222	0'	60'	60'	RS	0-60'	30/30	EV	✓			RS
	16:18	75-37	D.C.	230/231	0'	22'	22'	RS	0-22'	30/30	EV	✓			RS
				224/230	0'	22'	22'	RS	0-22'	30/30	EV	✓		↓	RS

TOTALS: FUSION: 1972 ✓ (ft) CUMULATED FUSION: ~~6480~~ 6438 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/18	16:13	75-37	D.C.	229/228	0'	22'	22'	RR	0-22'	30/30	EV	✓		AT	
11/18	16:51	75-25	M.G.	227/228	0'	22'	22'	RR	0-22'	30/30	EV	✓		↓	
	16:34	75-25	M.G.	226/227	0'	22'	22'	RR	0-22'	30/30	EV	✓			
	16:38	75-25	M.G.	225/226	0'	22'	22'	RR	0-22'	30/30	EV	✓			
11/19	16:31	75-26	R.R.	203/225	0'	2'	2'	RR	Patch	Patch	AT	✓			
	16:32	75-26	R.R.	225/2007	0	18'	18'	RR	0-18'	30/30	EV	✓			
	16:38	75-26	R.R.	201/224	0'	18'	18'	RR	0-18'	30/30	EV	✓			
	16:42	75-26	R.R.	721/222	0'	20'	20'	RR	0-20'	30/30	EV	✓		AT	
	13:40	75-31	G.G.	231/258	0'	50'	50'	RR	0-50'	30/30	EV	✓		↓	
	14:15	75-26	R.R.	258/259	0'	476'	476'	RR	0-476'	30/29	EV	✓			
	13:48	75-31	G.G.	230/258	0'	58'	58'	RR	0-58'	30/30	EV	✓			
	13:56	75-31	G.G.	229/258	0'	54'	54'	RR	0-54'	30/30	EV	✓			
	14:03	75-31	G.G.	228/258	0'	61'	61'	RR	0-61'	30/30	EV	✓			
	14:13	75-31	G.G.	227/258	0'	90'	90'	RR	0-90'	30/30	EV	✓			
	14:26	75-31	G.G.	226/258	0'	94'	94'	RR	0-94'	30/30	EV	✓		↓	

TOTALS: FUSION: ~~1035~~ 1009 (ft) CUMULATED FUSION: ~~62511~~ 65,395 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/30	10:36	75-31	G.G.	199/232	0	203	203'	RR	0-203	30/30	EV	/		AT	RR
	15:47	75-31	G.G.	235/238	0	87'	87'	RR	0-87'	30/30	EV	/			RR
	15:02	75-31	G.G.	204/239	0'	18'	18'	RR	0-18'	30/30	EV	/			RR
				203/239	0	18'	18'	RR	0-18'	30/30	EV	/			RR
	14:15	75-26	R.R.	238/247	0	472'	472'	RR	0-472'	30/29	EV	/			RR
	15:03	75-25	M.G.	240/247	0	12'	12'	RR	0-12'	30/30	EV	/			RR
	15:05	75-25	M.G.	239/240	0	5'	5'	RR	0-5'	30/30	EV	/			RR
	15:07	75-25	M.G.	237/238	0'	11'	11'	RR	0-11'	30/30	EV	/			RR
	15:10	75-25	M.G.	231/237	0	6'	6'	RR	0-6'	30/30	EV	/			RR
	15:14	75-25	M.G.	231/236	0	10'	10'	RR	0-10	30/30	EV	/			RR
	15:16	75-25	M.G.	224/236	0'	6'	6'	RR	0-6'	30/30	EV	/			RR
	15:19	75-25	M.G.	224/235	0	10'	10'	RR	0-10'	30/30	EV	/			RR
	12:15	75-26	R.R.	223/233	0'	10'	10'	RR	0-10	30/30	EV	/			RR
	12:20	75-26	R.R.	222/233	0'	7'	7'	RR	0-7	30/30	EV	/			RR
	12:24	75-26	R.R.	222/232	0'	11'	11'	RR	0-11'	30/30	EV	/			RR
	12:27	75-26	RR	193/232	0	7'	7'	RR	0-7'	30/30	EV	/		↓	RR

TOTALS: FUSION: 893' ✓ (ft) CUMULATED FUSION: 63409 66,288 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/20	10:36	75-31	G.G.	199/232	0'	199'	199'	RS	0-199'	30/30	EV	/		AT	RS
	10:58	75-25	M.G.	232/233	0'	198'	198'	RS	0-198'	30/30	EV	/			RS
	10:42	75-26	R.R.	233/235	0'	51'	51'	RS	0-51'	30/30	EV	/			RS
	11:03	75-26	R.R.	234/233	0'	136'	136'	RS	0-136	30/30	EV	/			RS
	11:14	75-31	G.G.	234/236	0'	136'	136'	RS	0-136'	30/30	EV	/			RS
	11:42	75-26	R.R.	235/234	0'	22'	22'		0-22'	30/30	EV	/			RS
	11:23	75-25	M.G.	236/237	0'	186'	186'	RS	0-186'	30/29	EV	/			RS
	15:15	75-25	M.G.	237/244	0'	114'	114'	RS	0-114	30/30	EV	/			RS
	14:45	75-25	M.G.	237/240	0'	61'	61'	RS	0-61	30/30	EV	/			RS
11/27	11:43	75-37	D.C.	239/242	0'	480'	480'	RS	0-115-480	30/30 30/30	EV	/			RS
	11:45	75-25	M.G.	242/243	0'	480'	480'	RS	0-480	30/30	EV	/			RS
	12:05	75-26	R.R.	243/244	0'	481'	481'	RS	0-116-481	30/30 30/30	EV	/			RS
	13:17	75-37	D.C.	244/245	0'	482'	482	RS	0-116-482	30/30 30/30	EV	/			RS
	14:02	75-31	G.G.	245/246	0'	484	484	RS	0-484'	30/30	EV	/			RS
	15:56	75-31	G.G.	246/247	0'	58'	58'	RS	0-58	30/30	EV	/			RS
	15:40	75-31	G.G.	246/248	0'	65'	65'	RS	0-6-65'	30/30 30/30	EV	/		↓	RS

TOTALS: FUSION: ~~3153~~ 3633 (ft) CUMULATED FUSION: ~~66557~~ 69921 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: ____ psi for minimum ____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/27	16:00	75-26	R.R.	246/249	0'	69'	69'	RR	0-69	30/30	EV	✓		AT	RR
	15:40	75-26	R.R.	249/250	0'	22'	22'	RR	0-22'	30/30	EV	✓			RR
	15:05	75-26	R.R.	249/250	0'	71'	71'	RR	0-71'	30/30	EV	✓			RR
	15:00	75-26	R.R.	250/251	0'	22'	22'	RR	0-22'	30/30	EV	✓			RR
	14:35	75-26	R.R.	246/251	0	75'	75'	RR	0-75	30/30	EV	✓			RR
	14:30	75-26	R.R.	251/252	0'	22'	22'	RR	0-22'	30/30	EV	✓			RR
	14:25	75-25	M.G.	246/252	0'	79	79'	RR	0-27-79	30/30 30/30	EV	✓			RR
	15:01	75-25	M.G.	252/253	0'	22'	22'	RR	0-22'	30/30	EV	✓			RR
	15:10	75-25	M.G.	246/253	0'	76'	76'	RR	0-76	30/30	EV	✓			RR
	15:31	75-31	G.G.	247/248	0'	22'	22'	RR	0-22'	30/30	EV	✓			RR
	15:45	75-37	P.C.	248/249	0'	22'	22'	RR	0-22'	30/30	EV	✓			RR
11/29	10:40	75-31	G.G.	253/254	0'	76'	76'	RR	0-76	30/30	EV	✓			RR
	10:56	75-31	G.G.	252/254	0'	79'	79'	RR	0-79'	30/30 30/30	EV	✓			RR
	11:21	75-31	G.G.	251/254	0'	77	77'	RR	0-77	30/30	EV	✓			RR
	11:32	75-31	G.G.	250/254	0	71	71'	RR	0-71	30/30	EV	✓			RR
	11:44	75-31	G.G.	249/254	0'	69'	69'	RR	0-69'	30/30	EV	✓			RR

TOTALS: FUSION: ~~797'~~ 874 (ft) CUMULATED FUSION: ~~67354~~ 70,795 (ft)

EXTRUSION: ____ (ft) CUMULATED EXTRUSION: ____ (ft)

COMMENTS: ____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/29	12:42	75-25	M.G.	263/264	0'	22'	22'	RS	0-22'	30/30	EV	✓		AT	RS
	12:28	75-25	M.G.	257/264	0'	56'	56'	RS	0-56	30/30	EV	✓		↓	RS
	12:35	75-31	G.G.	264/265	0	22'	22'	RS	0-22	30/29	EV	✓			RS
	15:32	75-25	M.G.	257/265	0	42'	42'	RS	0-42	30/29 30/30	EV	✓			RS
	12:18	75-31	G.G.	265/266	0'	22	22'	RS	0-22	30/30	EV	✓			RS
	15:47	75-25	M.G.	257/266	0'	45'	45'	RS	0-45	30/30	EV	✓			RS
	12:26	75-31	G.G.	266/267	0'	22'	22'	RS	0-22	30/30	EV	✓			RS
	15:58	75-31	M.G.	257/267	0'	54'	54'	RS	0-54	30/30	EV	✓			RS
	16:44	75-37	D.C.	315/267	0'	20'	20'	RS	0'-20'	30/30	EV	✓			RS
	16:50	75-37	D.C.	214/257	0'	19'	19'	RS	0-19'	30/30	EV	✓			RS
	14:59	75-37	D.C.	213/256	0'	20'	20'	RS	0-20'	30/29	EV	✓			RS
	15:03	75-37	D.C.	212/255	0'	19'	19'	RS	0-19'	30/30	EV	✓			RS
	15:07	75-37	D.C.	211/254	0'	19	19'	RS	0-19'	30/30 30/30	EV	✓			RS
	16:44	75-25	M.G.	257/277	0'	17'	17'	RS	0-17	30/30	EV	✓			RS
	16:49	75-25	M.G.	256/277	0'	5'	5'	RS	0-5	30/30	EV	✓			RS
	16:53	75-25	M.G.	256/276	0'	16'	16'	RS	0-16	30/30	EV	✓		↓	RS

TOTALS: FUSION: 400 ✓ (ft) CUMULATED FUSION: ~~67,754~~ 71,195 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME 11:56	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/29	[redacted]	75-31	G.G.	246/254	0'	64'	64'	RB	0-9-64'	30/30 30/30	EV	/		AT	RB
	12:07	75-31	G.G.	247/254	0'	62'	62'	RB	0-62'	30/29	EV	/			RB
	10:53	75-25	M.G.	254/255	0' 373	498	498'	RB	0-120-498	30/30 30/29	EV	/			RB
	11:20	75-26	R.R.	255/256	0'	499	499	RB	0-499'	30/29	EV	/			RB
	11:40	75-37	D.C.	256/257	0' 320	500	500'	RB	0-124-500	30/30 30/28 30/30	EV	/			RB
	14:10	75-25	M.G.	257/258	0'	51'	51'	RB	0-51	30/30	EV	/			RB
	14:20	75-25	M.G.	257/259	0'	53'	53'	RB	0-53'	30/30 [redacted]	EV	/			RB
	12:57	75-25	M.G.	258/259	0'	22'	22'	RB	0-22'	30/30	EV	/			RB
	12:53	75-26	R.R.	259/260	0'	22'	22'	RB	0-22'	30/29	EV	/			RB
	14:45	75-25	M.G.	257/260	0'	53'	53'	RB	0-22-53'	30/29 30/30	EV	/			RB
	12:48	75-26	R.R.	260/261	0'	22'	22'	RB	0-22	30/30	EV	/			RB
	14:56	75-25	M.G.	257/261	0'	54'	54'	RB	0-54'	30/30	EV	/			RB
	12:33	75-31	G.G.	261/262	0'	22'	22'	RB	0-22	30/29	EV	/			RB
	15:08	75-25	M.G.	257/262	0'	59'	59'	RB	0-59	30/30	EV	/			RB
	12:44	75-31	G.G.	262/263	0'	22'	22'	RB	0-22'	30/29	EV	/			RB
	15:19	75-25	M.G.	257/263	0'	57'	57'	RB	0-57'	30/30	EV	/			RB

TOTALS: FUSION: 2060 ✓ (ft) CUMULATED FUSION: ~~69814~~ 73255 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: ____ psi for minimum ____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/09	16:45	75-37	D.C.	255/275	0'	16'	16'		0-16	30/30	EV	✓		AT	
	16:56	75-25	M.G.	256/276	0'	5'	5'		0-5	30/29	EV	✓		AT	
	16:48	75-37	D.C.	254/275	0'	5'	5'		0-5	30/30	EV	✓		AT	
	16:52	75-37	D.C.	254/274	0'	17'	17'		0-17	30/30	EV	✓		AT	
	16:55	75-37	D.C.	253/274	0'	5'	5'		0-5	30/30	EV	✓		AT	
	[illegible]														
	16:20	75-26	R.R.	253/273	0'	17'	17'		0-17	30/30	EV	✓		AT	
	16:23	75-26	R.R.	246/273	0'	5'	5'		0-5	30/30	EV	✓			
	16:26	75-26	R.R.	246/272	0'	16'	16'		0-16	30/30	EV	✓			
	16:30	75-26	R.R.	245/272	0'	5'	5'		0-5	30/30	EV	✓			
	16:32	75-26	R.R.	245/271	0'	17'	17'		0-17	30/29	EV	✓			
	16:35	75-26	RR	244/271	0'	5'	5'		0-5	30/30	EV	✓			
	16:37	75-26	RR	244/270	0'	17'	17'		0-17	30/30	EV	✓			
	16:39	75-26	R.R.	243/270	0'	5'	5'		0-5	30/30	EV	✓			
	16:42	75-26	RR	243/269	0'	16'	16'		0-16	30/30	EV	✓			
	16:44	75-26	RR	242/269	0'	5'	5'		0-5	30/30	EV	✓			

TOTALS: FUSION: 156' ✓ (ft) CUMULATED FUSION: [redacted] 69970 73411 (ft)

EXTRUSION: ____ (ft) CUMULATED EXTRUSION: ____ (ft)

COMMENTS: ____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
11/29	16:48	75-26	R.R	242/268	0'	16'	16'	BS	0-16	30/29	EV	/		AT	BS
	16:53	75-26	R.R	241/268	0	121'	121'	BS	0-121'	30/29	EV	/			BS
	14:17	75-31	G.G.	269/269	0'	179	179	BS	0-179'	30/30	EV	/			BS
	14:56	75-31	G.G.	269/270	0	176	176'	BS	0-176	30/29	EV	/			BS
	15:23	75-37	D.C.	270/271	0	172'	172'	BS	0-172'	30/29	EV	/			BS
	15:17	75-26	R.R.	271/272	0	169	169'	BS	0-169'	30/30	EV	/			BS
	15:30	75-31	G.G.	272/273	0	164	164	BS	0-164	30/29	EV	/			BS
	16:05	75-26	R.R.	273/274	0'	162'	162'	BS	0-162	30/28	EV	/			BS
	16:07	75-37	D.C.	274/275	0	161	161	BS	0-161	30/30	EV	/			BS
	16:10	75-31	G.G.	275/276	0'	159'	159'	BS	0-159	30/30	EV	/			BS
	16:10	75-25	M.G.	276/277	0'	157	157	BS	0-157	30/30	EV	/			BS
11/29	16:20	75-26	R.R	241/268	0'	131'	131'	BS	0-131'	30/29	EV	/			BS
12/03	14:15	75-25	M.G.	277/278	0'	114'	114	BS	0-114	30/29	EV	/			BS
	14:14	75-31	G.G.	278/279	0'	92'	92	BS	0-92'	30/29	EV	/			BS
	14:19	75-37	D.C.	279/280	0	61	61	BS	0-61'	30/30	EV	/			BS
	14:16	75-26	R.R.	280/281	0	27	27'	BS	0-27'	30/29	EV	/		↓	BS

TOTALS: FUSION: ~~1930~~ 2061 (ft) CUMULATED FUSION: [redacted] ~~71900~~ 75,472 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
12/03	14:55	75-26	R.R.	281/282	0'	22'	22'	RS	0-22'	30/30	EV	/		AT	RS
	14:38	75-31	G.G.	282/283	0'	136'	136'	RS	0-136'	30/30	EV	/		AT	RS
	15:08	75-26	R.R.	280/282	0'	32'	32'	RS	0-32'	30/30	EV		/	AT	RS
	[redacted]														
	15:19	75-26	R.R.	279/282	0'	32'	32'	RS	0-32'	30/29	EV	/		AT	RS
	15:31	75-26	R.R.	278/282	0'	32'	32'	RS	0-32'	30/30	EV	/			RS
	14:50	75-25	M.G.	283/284	0'	129'	129'	RS	0-129'	30/30	EV	/			RS
	15:27	75-31	G.G.	284/285	0'	61'	61'	RS	0-61'	30/30	EV	/			RS
	15:29	75-25	M.G.	285/286	0	57'	57'	RS	0-57'	30/30	EV				RS
	15:33	75-26	R.R.	286/287	0'	111'	111'	RS	0-111'	30/30	EV	/			RS
	15:48	75-25	M.G.	287/288	0'	109'	109'	RS	0-109'	30/30	EV	/			RS
	16:03	75-31	G.G.	288/289	0'	107'	107'	RS	0-107'	30/29	EV	/			RS
	16:19	75-25	M.G.	289/290	0'	106'	106'	RS	0-106'	30/30	EV	/			RS
	15:42	75-31	G.G.	284/286	0	68'	68'	RS	0-68'	30/30	EV	/		↓	RS

TOTALS: FUSION: 1002 ✓ (ft) CUMULATED FUSION: [redacted] 72962 76,474 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
12/04	11.29	75-25	M.G.	[redacted] 294/292	0'	75'	75'	RS	0-42-75'	30/30 30/30	EV	✓		AT	RBS
	12.12	75-37	D.C.	294/292	0'	24'	24'	RBS	0-5-15-24	30/29 30/30 30/30	EV	✓			RBS
	12.19	75-37	D.C.	294/292	0'	24'	24'	RBS	0-24'	30/29	EV	✓			RBS
	11.52	75-25	M.G.	292/293	0'	22'	22'	RBS	0-22'	30/30	EV	✓			RBS
	12.45	75-37	D.C.	293/294	0'	51'	51'	RBS	0-51'	30/30	EV	✓			RBS
	12.26	75-37	D.C.	292/294	0'	14'	14'	RBS	0-14'	30/30	EV	✓			RBS
	12.58	75-37	D.C.	293/295	0'	189'	189'	RBS	0-189'	30/30	EV	✓			RBS
	13.26	75-37	D.C.	293/296	0'	124'	124'	RBS	0-124'	30/30	EV	✓			RBS
	14.45	75-26	R.R.	296/297	0'	127'	127'	RBS	0-127'	30/30	EV	✓			RBS
	14.00	75-26	R.R.	295/297	0	180'	180'	RBS	0-180	30/30	EV	✓			RBS
	14.23	75-25	M.G.	297/298	0'	76'	76'	RBS	0-76'	[redacted] 30/30	EV	✓			RBS
	14.39	75-25	M.G.	297/299	0	192'	192'	RBS	0-45-192'	30/30 30/30	EV	✓			RBS
	14.12	75-25	M.G.	298/299	0'	22'	22'	RBS	0-22'	30/30	EV	✓			RBS
	15.11	75-25	M.G.	297/300	0'	42'	42'	RBS	0-42'	30/29	EV	✓			RBS
	15.03	75-25	M.G.	299/300	0'	22	22'	RBS	0-22'	30/30	EV	✓		↓	RBS

TOTALS: FUSION: 1184 ✓ (ft) CUMULATED FUSION: 74086 77,1658 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
12/05	13:33	75-37	D.C.	290/301	0'	104	104		0-8.	30/30 30/30	EV	✓		AT	RB
	13:35	75-26	R.R.	301/302	0'	104	104			30/30	EV	✓			RB
	13:42	75-25	M.G.	302/303	0	103	103			30/30	EV	✓			RB
	14:00	75-37	D.C.	303/304	0	102	102			30/29	EV	✓			RB
	14:10	75-26	R.R.	304/305	0	101	101			30/29	EV	✓			RB
	14:03	75-31	G.G.	291/292	0	45	45			30/30	EV	✓			RB
	14:14	75-31	G.G.	297/302	0	104	104			30/30	EV	✓			RB
	14:23	75-31	G.G.	297/303	0	103	103			30/29	EV	✓			RB
	14:11	75-25	M.G.	305/306	0	100	100			30/30	EV	✓			RB
	14:32	75-37	D.C.	306/307	0	100	100			30/29	EV	✓			RB
	14:30	75-26	R.R.	307/308	0	99	99			30/30	EV	✓			RB
	14:45	75-25	M.G.	308/309	0	98	98			30/29	EV	✓			RB
	14:56	75-37	D.C.	309/310	0	97	97			30/30	EV	✓			RB
	15:10	75-26	R.R.	310/311	0	96	96			30/29	EV	✓			RB
	15:12	75-25	M.G.	311/312	0	96	96			30/30	EV	✓			RB
	15:29	75-37	D.C.	312/313	0'	95	96			30/29	EV	✓			RB

TOTALS: FUSION: 1547 (ft) CUMULATED FUSION: _____ (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
~~12/06~~	15:29	312/313	D.C.	75-37											
12/06	13:10	313/315	G.G.	75-31			95								
	13:21	315/316	M.G.	75-25			108								
	13:32	316/317	D.C.	75-37	0	115'	115'	BB	0-115	30/29	EV	/		ATOL	BB
	13:35	317/318	G.G.	75-31	0'	121'	121'	BB	0-121	30/28	EV	/			BB
	13:50	318/319	M.G.	75-25	0'	127'	127'	BB	0-127	30/29	EV	/			BB
	14:00	319/320	D.C.	75-37	0'	133	133	BB	0-133	30/30	EV	/			BB
	14:06	320/321	G.G.	75-31	0'	124	124'	BB	0-124	30/30	EV	/			BB
	14:25	321/322	M.G.	75-25	0'	131	131	BB	0-131	30/30	EV	/			BB
	14:40	322/323	D.C.	75-37	0	131'	131	BB	0-131	30/29	EV	/			BB
	15:05	323/325	M.G.	75-25	0'	150'	150'	BB	0-150	30/30	EV	/			BB
	[redacted]				0'	11'	11'	BB	0-11	30/30	EV	/		↓	BB
12/06	15:26	325/326	D.C.	75-37	0'	160'	160'	BB	0-160	30/29	EV	/		ATOL	BB
		326/327													

TOTALS: FUSION: ~~1203~~ 1406 (ft) CUMULATED FUSION: 78,861 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☐ SECONDARY: ☑ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: ____ psi for minimum ____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
12/05	14:03	75-31	G.G.	292/301	0'	21'	21'	BB	0-13-21	30/29 30/29	EV	/		AT	BB
	14:14	75-31	G.G.	294/302	0'	21'	21'	BB	0-16-21	30/30 30/30	EV	/			BB
	14:29	75-31	G.G.	294/303	0'	22'	22'	BB	0-21	30/29	EV	/			BB
	14:34	75-31	G.G.	294/304	0'	22'	22'	BB	0-22	30/29	EV	/			BB
	12:42	75-31	G.G.	295/305	0'	10'	10'	BB	0-10	30/30	EV	/			BB
	14:46	75-31	G.G.	297/306	0'	10'	10'	BB	0-10	30/29	EV	/			BB
	14:51	75-31	G.G.	297/306	0'	22'	22'	BB	0-22	30/30	EV	/			BB
	14:56	75-31	G.G.	297/307	0'	22'	22'	BB	0-22	30/30	EV	/			BB
	15:04	75-31	G.G.	247/308	0'	22'	22'	BB	0-22	30/30	EV	/			BB
	15:13	75-31	G.G.	298/309	0'	22'	22'	BB	0-22	30/30	EV	/			BB
	15:23	75-31	G.G.	298/310	0'	22'	22'	BB	0-22	30/29	EV	/			BB
	15:29	75-31	G.G.	298/311	0'	22'	22'	BB	0-22'	30/28	EV	/			BB
	15:35	75-31	G.G.	298/312	0'	12'	12'	BB	0-12'	30/29	EV	/			BB

TOTALS: FUSION: 250 (ft) CUMULATED FUSION: 7911 (ft)

EXTRUSION: ____ (ft) CUMULATED EXTRUSION: ____ (ft)

COMMENTS: ____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

PRIMARY: ☑ SECONDARY: ☐ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
12/6	1635	75-26	R.R.	258/283'	0'	22'	22'	RB	0-22'	39/30	EV	✓		AT	RB
	1638	75-26	R.R.	258/284'	0'	22'	22'	RB	0-22'	30/30	EV	✓		↓	RB
	1145	75-37	D.C.	286/291	0'	8'	8'	RB	0-8'	39/28	EV	✓			RB
	1156	75-37	D.C.	287/291	0'	21'	21'	RB	0-21'	30/28	EV	✓			RB
	1207	75-37	D.C.	288/291	0'	21'	21'	RB	0-21'	30/28	EV	✓			RB
	1127	75-31	G.G.	258/291	0'	13'	13'	RB	0-13'	30/29	EV	✓			RB
	1130	75-31	G.G.	259/291	0'	53'	53'	RB	0-53	30/29	EV	✓			RB
	1140	75-31	G.G.	260/291	0'	54'	54'	RB	0-10-54	30/30 39/29	EV	✓			RB
	1158	75-26	R.R.	261/291	0'	55'	55'	RB	0-55'	30/30	EV	✓			RB
	1210	75-26	R.R.	262/291	0	59'	59'	RB	0-59'	30/30	EV	✓			RB
	1223	75-26	R.R.	263/291	0'	57	57'	RB	0-57'	30/30	EV	✓			RB
	1235	75-26	R.R.	264/291	0'	56'	56'	RB	0-56'	30/30	EV	✓			RB
	1243	75-26	R.R.	265/291	0'	44'	44'	RB	0-23-44'	39/30	EV	✓			RB
	1253	75-26	R.R.	266/291	0'	46'	46'	RB	0-46'	30/30	EV	✓			RB
	1305	75-26	R.R.	267/291	0'	38'	38'	RB	0-38'	39/30	EV	✓			RB
↓	1200	75-25	M.G.	291/293	0'	360'	360'	RB	0-360	30/30	EV	✓		↓	RB

TOTALS: FUSION: 929 ✓ (ft) CUMULATED FUSION: ~~75015~~ 80,040 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER:

YEAR: 2009

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/4	1315	75-28	D.C.	101/328	0	15	15	BB	0-15	30/30	D.C.	✓		AT	BB
"	1322	75-28	D.C.	100/328	0	32	32	BB	0-32	30/30	D.C.	✓			BB
"	1336	75-29	D.C.	126/328	0	79	79	BB	0-79	30/30	D.C.	✓			BB
"	1340	75-29	GGM	/328	0	23	23	BB	0-25	30/30	D.C.	✓			BB
"	1347	75-29	GGM	99/328	0	37	37	BB	0-37	30/30	D.C.	✓			BB
"	1358	75-29	GGM	98/328	0	34	34	BB	0-34	30/30	D.C.	✓			BB
"	1409	75-29	GGM	97/328	0	33	33	BB	0-33	30/30	D.C.	✓			BB

TOTALS: FUSION: 253 (ft) CUMULATED FUSION: 80,793 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS:

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/12	1700	~~MGM~~ 75-28	MGM	338/342	0	84	84	BB	0-84	30/30	EV	/		AT	BB
"	1712	75-28	MGM	338/341	0	77	77	BB	0-77	30/30	EV	/			BB
"	1645	754-10	RR	338/340	0	169	169	BB	0-169	30/30	EV	/			BB
"	1200	75-28	MGM	330/331	0	22	22	BB	0-22	30/29	EV	/			BB
"	1515	75-28	MGM	333/334	0	22	22	BB	0-22	30/30	EV	/			BB
"	1520	75-28	MGM	332/333	0	22	22	BB	0-22	30/30	EV	/			BB
"	1551	754-10	RR	335/336	0	22	22	BB	0-22	30/30	EV	/			BB
"	1554	75-28	MGM	336/337	0	22	22	BB	0-22	30/30	EV	/			BB
"	1638	75-28	MGM	339/339	0	22	22	BB	0-22	30/29	EV	/			BB
"	1643	75-28	MGM	342/343	0	22	22	BB	0-22	30/30	EV	/			BB
"	1647	75-28	MGM	341/342	0	22	22	BB	0-22	30/29	EV	/			BB
"	1630	754-10	RR	340/341	0	22	22	BB	0-22	30/30	EV	/			BB
"	1634	75-28	MGM	327/329	0	23	23	BB	0-23	30/30	EV	/			BB
"	1620	75-28	MGM	327/327	0	24	24	BB	0-24	30/29	EV	/			BB
"	1625	75-28	MGM	327/334	0	24	24	BB	0-24	30/30	EV	/			BB
"	1629	75-28	MGM	327/331	0	24	24	BB	0-24	30/30	EV	/			BB

TOTALS: FUSION: ~~5339~~ 623 (ft) CUMULATED FUSION: 80,916 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/12	1210	754-28	MGM	321/329	0	405	405	RB	0-405	30/29	GV	✓		AT	RB
"	1205	754-10	RR	329/331	0	117	117	RB	0-117	30/28	GV	✓			RB
"	1243	754-10	RR	329/330	0	295	295	RB	0-16-295	30/28 30/29	GV	✓			RB
"	1520	754-10	RR	330/332	0	124	124	RB	0-124	30/30	GV	✓			RB
"	1514	754-10	RR	333/330	0	24	24	RB	0-24	30/30	GV	✓			RB
"	1521	754-10	RR	330/334	0	145	145	RB	0-121-145	30/28 30/29	GV	✓			RB
"	1440	754-10	RR	331/334	0	128	128	RB	0-128	30/30	GV	✓			RB
"	1601	75-28	MGM	334/337	0	25	25	RB	0-25	30/30	GV	✓			RB
"	1605	75-28	MGM	336/337	0	86	86	RB	0-86	30/30	GV	✓			RB
"	1636	75-28	MGM	334/335	0	326	326	RB	0-326	30/28	GV	✓			RB
"	1600	754-10	RR	337/339	0	24	24	RB	0-24	30/30	GV	✓			RB
"	1609	754-10	RR	336/339	0	45	45	RB	0-45	30/30	GV	✓			RB
"	1610	754-10	RR	336/338	0	20	20	RB	0-20	30/29	GV	✓			RB
"	1615	754-10	RR	335/338	0	326	326	RB	0-326	30/29	GV	✓			RB
"	1651	75-28	MGM	339/343	0	22	22	RB	0-22	30/30	GV	✓			RB
"	1655	75-28	MGM	338/343	0	35	35	RB	0-35	30/29	GV	✓			RB

TOTALS: FUSION: 2147 ✓ (ft) CUMULATED FUSION: 2686 83,063 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: ____ psi for minimum ____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/3	1445	75-28	MGM	351/352	0	76	76	RB	0-76	30/30	EV	/		AT	RB
"	1445	75-29	DC	352/353	0	59	59	RB	0-59	30/30	EV	/			RB
"	1502	75-28	MGM	353/354	0	39	39	RB	0-39	30/30	EV	/			RB
"	1525	75-29	DC	355/354	0	27	27	RB	0-27	30/30	EV	/			RB
"	1529	75-29	DC	355/353	0	27	27	RB	0-27	30/29	EV	/			RB
"	1534	75-29	DC	355/352	0	27	27	RB	0-27	30/30	EV	/			RB
"	1538	75-29	DC	355/351	0	27	27	RB	0-27	30/29	EV	/			RB
"	1542	75-29	DC	355/350	0	27	27	RB	0-27	30/28	EV	/			RB
"	1546	75-29	DC	355/349	0	27	27	RB	0-27	30/28	EV	/			RB
"	1155	754-10	RR	355/356	0	181	181	RB	0-181	30/28	EV	/			RB
"	1238	75-28	MGM	356/357	0	186	186	RB	0-186	30/30	EV	/			RB
"	1533	75-28	MGM	357/376	0	96	96	RB	0-96	30/30	EV	/			RB
"	1510	754-10	RR	376/375	0	94	94	RB	0-94	30/28	EV	/			RB
"	1520	754-10	RR	375/374	0	93	93	RB	0-93	30/30	EV	/			RB
"	1537	754-10	RR	374/373	0	92	92	RB	0-92	30/30	EV	/			RB
"	1548	754-10	RR	373/372	0	92	92	RB	0-92	30/30	EV	/		↓	RB

TOTALS: FUSION: ~~883~~ 1170 (ft) CUMULATED FUSION: 38576 84 233 (ft)

EXTRUSION: ____ (ft) CUMULATED EXTRUSION: ____ (ft)

COMMENTS: ____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/13	1002	75-28	MGM	343/345	0	9	9	RR	0-9	30/30	EV	✓		AT	RR
"	1005	75-28	MGM	342/345	0	59	59	RR	0-59	30/30	EV	✓			RR
"	1112	75-28	MGM	342/344	0	25	25	RR	0-25	30/30	EV	✓			RR
"	1117	75-28	MGM	341/344	0	84	84	RR	0-84	30/30	EV	✓			RR
"	1128	75-28	MGM	340/344	0	162	162	RR	0-162	30/30	EV	✓			RR
"	1122	754-10	RR	345/347	0	22	22	RR	0-22	30/30	EV	✓			RR
"	1128	754-10	RR	344/347	0	42	42	RR	0-42	30/30	EV	✓			RR
"	1138	754-10	RR	344/346	0	237	237	RR	0-237	30/29	EV	✓			RR
"	1235	754-10	RR	347/348	0	20	20	RR	0-20	30/30	EV	✓			RR
"	1239	754-10	RR	346/348	0	44	44	RR	0-44	30/29	EV	✓		↓	RR
~~"~~		~~754-10~~		~~346/347~~	~~0~~	~~15~~	~~15~~	~~RR~~							
"	1245	754-10	RR	346/356	0	27	27	RR	0-27	30/29	EV	✓		AT	RR
"	1248	754-10	RR	346/355	0	27	27	RR	0-27	30/29	EV	✓			RR
"	1252	754-10	RR	346/349	0	118	118	RR	0-118	30/30	EV	✓			RR
"	1447	75-28	MGM	349/350	0	94	94	RR	0-94	30/30	EV	✓			RR
"	1435	75-28	DL	350/351	0	88	88	RR	0-88	30/30	EV	✓		↓	RR

TOTALS: FUSION: ~~1073~~ 1058 (ft) CUMULATED FUSION: ~~84,233~~ 85,291 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER:

YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
4/3	1743	75-28	DC	357/362	0	23	23	RS	0-23	30/30	EV	/		AT	RS
"	1747	75:28	DC	357/361	0	23	23	RS	0-23	30/29	EV	/			RS
"	1751	75:28	DC	359/360	0	23	23	RS	0-23	30/30	EV	/			RS
"	1755	75:28	DC	357/359	0	23	23	RS	0-23	30/30	EV	/			RS
"	1759	75:28	DC	358/359	0	23	23	RS	0-23	30/30	EV	/			RS
"	1630	75:28	DC	376/337	0	9	9	RS	0-9	30/30	EV	/			RS
"	1633	75:28	DC	376/339	0	12	12	RS	0-12	30/30	EV	/			RS
"	1636	75:28	DC	375/339	0	23	23	RS	0-23	30/30	EV	/			RS
"	1640	75:28	DC	374/339	0	18	18	RS	0-18	30/30	EV	/			RS
"	1643	75:28	DC	374/	0	4	4	RS	0-4	30/30	EV	/			RS
"	1644	75:28	DC	373/343	0	22	22	RS	0-22	30/28	EV	/			RS
"	1648	75:28	DC	372/343	0	22	22	RS	0-22	30/29	EV	/			RS
"	1652	75:28	DC	371/345	0	19	19	RS	0-19	30/30	EV	/			RS
"	1656	75:28	DC	370/345	0	22	22	RS	0-22	30/30	EV	/			RS
"	1700	75:28	DC	369/347	0	10	10	RS	0-10	30/29	EV	/			RS
"	1704	75-28	DC	369/347	0	22	22	RS	0-22	30/30	EV	/			RS

TOTALS: FUSION: ~~298~~ 298 ✓ (ft) CUMULATED FUSION: (2413) ~~5054~~ ~~5280~~ 6355 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

85,589

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/13	1551	75-28	MGM	372/371	0	92	92	RB	0-91	30/29	EV	✓		AT	RB
"	1555	75-29	DC	371/370	0	92	92	RB	0-91	30/30	EV	✓			RB
"	605	754-10	RR	369/370	0	91	91	RB	0-91	30/30	EV	✓			RB
"	1615	75-28	MGM	368/369	0	91	91	RB	0-91	30/30	EV	✓			RB
"	1622	754-10	RR	367/368	0	91	91	RB	0-91	30/30	EV	✓			RB
"	1634	75-28	MGM	366/367	0	91	91	RB	0-91	30/30	EV	✓			RB
"	1646	754-10	RR	365/366	0	91	91	RB	0-91	30/30	EV	✓			RB
"	1705	75-28	MGM	365/364	0	91	91	RB	0-91	30/30	EV	✓			RB
"	1712	754-10	RR	363/364	0	95	95	RB	0-95	30/29	EV	✓			RB
"	1719	75-28	MGM	362/363	0	81	81	RB	0-81	30/29	EV	✓			RB
"	1723	754-10	RR	361/362	0	67	67	RB	0-67	30/30	EV	✓			RB
"	1739	75-28	MGM	360/361	0	54	54	RB	0-54	30/30	EV	✓			RB
"	1739	754-10	RR	359/360	0	40	40	RB	0-40	30/29	EV	✓			RB
"	1748	754-10	RR	358/359	0	25	25	RB	0-25	30/30	EV	✓			RB
"	1735	75-28	DC	357/364	0	13	13	RB	0-13	30/30	EV	✓			RB
"	1739	75-28	DC	357/363	0	23	23	RB	0-23	30/30	EV	✓			RB

TOTALS: FUSION: 1128 ✓ (ft) CUMULATED FUSION: ~~(3210) 4484~~ 6053 8167 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☐ SECONDARY: ☑ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/13	1709	75-26	DL	367/347	0	13	13	BS	0-13	30/30	EV	✓		AT	BS
"	1713	75-26	DL	367/348	0	10	10	BS	0-10	30/30	EV	✓		↓	BS
"	1716	75-28	DL	366/348	0	22	22	BS	0-22	30/30	EV	✓			BS
"	1720	75-28	DL	366/348	0	22	22	BS	0-22	30/30	EV	✓			BS

TOTALS: FUSION: ~~(67)(1270)(64)~~ → 67 (ft) CUMULATED FUSION: ~~(5282)(5349)~~ ~~6422~~ ~~6349~~ 86,784 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

PRODUCTION SEAM SUMMARY LOG

PROJECT: WHITE MESA MILL
LOCATION: BLANDING, UTAH PROJECT NO.: SC-0349 TASK NO.: 1
DESCRIPTION: CELL 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ SPECIFICATIONS: AIR PRESSURE: 30psi for 5 min VACUUM BOX 10 sec

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST					
DATE (day/mo)	TIME	MACH. NO.	OPER. ID	SEAM NO.	BEGIN	END	SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS/ FAIL	ACTION	QA ID
15-Apr	1045	75-25	GGM	89/89	0	22	22	CS	0-22	1048-1053 30/30	EV	P	ATOK	CS
15-Apr	1040	75-25	GGM	88/88	0	22	22	CS	0-22	1031-1036 30/30	EV	P	ATOK	CS
15-Apr	1035	75-25	GGM	87/87	0	22	22	CS	0-22	1039-1044 30/30	EV	P	ATOK	CS
15-Apr	1030	75-25	GGM	86/86	0	22	22	CS	0-22	1034-1039 30/30	EV	P	ATOK	CS
15-Apr	1025	75-25	GGM	85/85	0	22	22	CS	0-22	1030-1035 30/30	EV	P	ATOK	CS
15-Apr	1020	75-25	GGM	84/84	0	22	22	CS	0-22	1024-1029 30/30	EV	P	ATOK	CS
15-Apr	1015	75-25	GGM	83/83	0	22	22	CS	0-22	1021-1026 30/30	EV	P	ATOK	CS
15-Apr	1010	75-25	GGM	82/82	0	22	22	CS	0-22	1014-1019 30/30	EV	P	ATOK	CS
15-Apr	1005	75-25	GGM	81/81	0	22	22	CS	0-22	1011-1016 30/30	EV	P	ATOK	CS
15-Apr	1000	75-25	GGM	80/80	0	22	22	CS	0-22	1010-1015 30/30	EV	P	ATOK	CS
15-Apr	0955	75-25	GGM	79/79	0	22	22	CS	0-22	1009-1014 30/30	EV	P	ATOK	CS
15-Apr	0950	75-25	GGM	78/78	0	22	22	CS	0-22	1001-1006 30/30	EV	P	ATOK	CS
15-Apr	0945	75-25	GGM	77/77	0	22	22	CS	0-22	959-1004 30/30	EV	P	ATOK	CS
15-Apr	0940	75-25	GGM	76/76	0	22	22	CS	0-22	957-1002 30/30	EV	P	ATOK	CS
15-Apr	0935	75-25	GGM	75/75	0	22	22	CS	0-22	956-1001 30/30	EV	P	ATOK	CS
15-Apr	0930	75-25	GGM	74/74	0	22	22	CS	0-22	945-1000 30/30	EV	P	ATOK	CS
15-Apr	0925	75-25	GGM	18/18	0	22	22	CS	0-22	944-949 30/30	EV	P	ATOK	CS
15-Apr	0920	75-25	GGM	17/17	0	22	22	CS	0-22	942-947 30/30	EV	P	ATOK	CS
15-Apr	0915	75-25	GGM	16/16	0	22	22	CS	0-22	928-933 30/30	EV	P	ATOK	CS
15-Apr	0910	75-25	GGM	15/15	0	22	22	CS	0-22	927-932 30/30	EV	P	ATOK	CS
15-Apr	0905	75-25	GGM	14/14	0	22	22	CS	0-22	926-931 30/30	EV	P	ATOK	CS
							462	(ft)				ACCUMULATED	47,296	(ft)

NOTES: Wrinkle in secondary liner cut out & repaired

Geosyntec consultants

PRODUCTION SEAM SUMMARY LOG

PROJECT: WHITE MESA MILL
LOCATION: BLANDING, UTAH PROJECT NO.: SC-0349 TASK NO.: 1
DESCRIPTION: CELL 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ SPECIFICATIONS: AIR PRESSURE: 30psi for 5 min VACUUM BOX 10 sec

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST					
DATE (day/mo)	TIME	MACH. NO.	OPER. ID	SEAM NO.	BEGIN	END	SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS/ FAIL	ACTION	QA ID
15-Apr	0900	75-25	GGM	13/13	0	22	22	CS	0-22	926-931 30/30	EV	P	ATOK	CS
15-Apr	0855	75-25	GGM	12/12	0	22	22	CS	0-22	925-930 30/30	EV	P	ATOK	CS
15-Apr	0850	75-25	GGM	11/11	0	22	22	CS	0-22	916-921 30/30	EV	P	ATOK	CS
15-Apr	0845	75-25	GGM	10/10	0	22	22	CS	0-22	915-920 30/30	EV	P	ATOK	CS
15-Apr	0840	75-25	GGM	9/9	0	22	22	CS	0-22	913-918 30/30	EV	P	ATOK	CS
15-Apr	0835	75-25	GGM	8/8	0	22	22	CS	0-22	VTOK	RG	P	VTOK	CS

132 (ft) ACCUMULATED 87,378 (ft)

NOTES: Wrinkle in secondary liner cut out and repaired

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2007

PRIMARY: ☑ SECONDARY: ☐ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/11/08	1505	75-29	RR	334/335	0	132	132	RB	0-132	30/30	JCS	✓		AT	RB
"	1540	75-28	DC	333/334	0	90	90	RB	0-90	30/30	JCS	✓			RB
"	1548	75-29	RR	332/333	0	57	57	RB	0-57	30/27	JCS	✓			RB
"	1607	75-28	DC	A0 /332	0	14	14	RB	0-14	30/28	JCS	✓		↓	RB

TOTALS: FUSION: 293✓ (4th (1602)) (ft) CUMULATED FUSION: 1602+293 87,671 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

* 40- Add on

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY: ☑ SECONDARY: ☐ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/11/08	1038	75-28	D.C.	263/322	0	145	145	RB	0-145	30/30	J.C.S.	✓		AT	RB
"	1040	75-29	R.R.	322/323	0	145	145	RB	0-145	30/30	J.C.S.	✓			RB
"	1110	75-28	D.C	323/324	0	149	149	RB	0-149	30/30	J.C.S.	✓			RB
"	1115	75-29	R.R	324/325	0	138	138	RB	0-138	30/29	"	✓			RB
"	1155	75-28	D.C	325/326	0	122	122	RB	0-122	30/30	"	✓		↓	RB
				266/325	0										
"	1155	75-29	RR	330/331	0	85	85	RB	0-85	30/28	"	✓		AT	RB
"	1220	75-29	RR	329/330	0	74	74	RB	0-74	30/29	"	✓			RB
"	1348	75-29	RR	328/329	0	57	57	RB	0-57	30/30	"	✓			RB
"	1408	75-29	RR	327/328	0	30	30	RB	0-30	30/30	"	✓		↓	RB
"		75-29	RR	324/331	0	23	23	RB							
"	1227	75-28	D.C	326/331	0	23	23	RB	0-23	30/30	"	✓		AT	RB
"	1233	75-28	D.C	325/331	0	25	25	RB	0-25	30/30	"	✓			RB
"	1239	75-28	D.C	324/331	0	15	15	RB	0-15	30/30	"	✓			RB
"	1429	75-28	DC	328/336	0	150	150	RB	0-150	30/29	"	✓			RB
"	1457	75-28	DC	335/336	0	151	151	RB	0-151	30/30	JCS	✓		↓	RB

TOTALS: FUSION: 1309 ✓ (ft) CUMULATED FUSION: ~~Sweetwater = 87,671 total~~ 88,980 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/17	1443	75400010	RR	355/356	0	61	61	BS	0-61	30/30	EV	✓		AT	BS
"	1409	"	"	356/357	0	22	22	BS	0-22	30/30	EV	✓			BS
"	1417	75-28	SGM	356/357	0	~~22~~ 120	~~22~~ 120	BS	0-~~22~~ 120	30/30	EV	✓			BS
"	1439	"	"	357/358	0	107	107	BS	0-107	30/30	EV	✓			BS
"	1502	"	"	358/359	0	91	91	BS	0-91	30/30	EV	✓			BS
"	1518	"	"	359/360	0	75	75	BS	0-75	30/30	EV	✓			BS
"	1525	"	"	360/361	0	60	60	BS	0-60	30/28	EV	✓			BS
"	1540	"	"	361/362	0	39	39	BS	0-39	30/29	EV	✓			BS
"	1535	75-29	DC	362/363	6	30	30	BS	0-30	30/29	EV	✓			BS
"	1539	"	"	361/363	0	23	23	BS	0-23	30/30	EV	✓			BS
"	1542	"	"	360/362	0	26	26	BS	0-26	30/30	EV	✓			BS
"	1545	"	DC	359/363	0	27	27	BS	0-27	30/30	EV	✓			BS
"	1548	"	DC	358/363	0	27	27	BS	0-27	30/30	EV	✓			BS
"	1511	"	"	357/363	0	27	27	BS	0-27	30/30	EV	✓			BS
"	1520	75400010	RR	365/364	0	178	178	BS	0-178	30/29	EV	✓			BS
"	1543	"	"	364/365	0	192	192	BS	0-192	30/28	EV	✓			BS

TOTALS: FUSION: 1105 ✓ (ft) CUMULATED FUSION: ~~4990~~ 90,085 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER:

YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/17/08	0930	75-29	DC	1/337	0	459	459	RB	0-459	30/29	EV	✓		AT	RB
"	0930	"	"	1/338	0	83	83	RB	0-83	30/29	EV	✓			RB
"	0735	75-2[illegible]10	RR	337/339	0	459	459	RB	0-459	30/28	EV	✓			RB
"	0749	75-28	GGM	339/342	0	377 77	77	RB	0-77	30/30	EV	✓			RB
"	0813	"	"	339/341	0	73	73	RB	0-73	30/29	EV	✓			RB
"	0840	75-28	"	339/340	0	390	390	RB	0-390	30/29	EV	✓			RB
"	1038	75-2[illegible]9	DC	337/338	0	22	22	RB	0-22	30/30	EV	✓			RB
"	0810	75-28	[illegible]GGM	341/342	0	22	22	RB	0-22	30/30	EV	✓			RB
"	0829	75-28	GGM	340/341	0	22	22	RB	0-22	30/29	EV	✓			RB
"	0851	75-4[illegible]10	RR	343/344	0	22	22	RB	0-22	30/29	EV	✓			RB
"	1006	75-28	GGM	344/346	0	54	54	RB	0-54	30/30	EV	✓			RB
"	1010	75-28	GGM	343/346	0	8	8	RB	0-8	30/30	EV	✓			RB
"	1012	"	"	343/345	0	463	463	RB	0-463	30/29	EV	✓			RB
"	0948	"	"	345/346	0	22	22	RB	0-22	30/30	EV	✓			RB
"	1035	75-4[illegible]10	RR	346/349	0	18	18	RB	0-18	30/30	EV	✓			RB
"	1038	"	"	348/349	0	34	34	RB	0-34	30/30	EV	✓			RB

TOTALS: FUSION: 2228 (ft) CUMULATED FUSION: 3885 92,313 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: ____ psi for minimum ____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/17/08	10:43	75400010	RR	345/348	0	82	82	RB	0-82	30/30	EV	✓		AT	RB
"	1025	"	"	348/349	0	22	22	RB	0-22	30/30	EV	✓			RB
"	1145	"	"	348/351	0	[illegible]	[illegible]	RB	0-81	30/30	EV	✓			RB
"	10:52	"	"	347/347	0	347	347	RB	0-347	30/29	EV	✓			RB
"	1010	"	"	347/348	0	22	22	RB	0-22	30/30	EV	✓			RB
"	1200	"	"	347/351	0	97	97	RB	0-97	30/30	EV	✓			RB
"	1135	"	"	350/351	0	22	22	RB	0-22	30/30	EV	✓			RB
"	1207	75-28	GGM	352/353	0	22	22	RB	0-22	30/30	EV	✓			RB
"	1155	"	GGM	353/354	0	22	22	RB	0-22	30/30	EV	✓			RB
"	1144	"	"	351/354	0	59	59	RB	0-59	30/30	EV	✓			RB
"	1159	"	"	351/353	0	33	33	RB	0-33	30/29	EV	✓			RB
"	1215	"	"	351/352	0	45	45	RB	0-45	30/30	EV	✓			RB
"	1219	"	"	350/352	0	250	250	RB	0-250	30/29	EV	✓			RB
"	1233	75-29	DL	353/355	0	35	35	RB	0-35	30/30	EV	✓			RB
"	1241	"	DL	352/355	0	294	294	RB	0-294	30/30	EV	✓			RB
"	1415	75400010	RR	355/357	0	224	224	RB	0-224	30/30	EV	✓			ML

TOTALS: FUSION: 1657 ✓ (ft) CUMULATED FUSION: 93,970 (ft)

EXTRUSION: ____ (ft) CUMULATED EXTRUSION: ____ (ft)

COMMENTS: ____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2007

PRIMARY: ☑ SECONDARY: ☐ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/18	0748	75400010	RR	377/378	0	94	94	BS	0-94	30/30	EV	/		AT	BS
"	0758	75-29	DL	378/379	0	104	104	BS	0-104	30/30	EV	/			BS
"	0808	75400010	RR	379/380	0	106	106	BS	0-106	30/29	EV	/			BS
"	0830	75400010	RR	380/381	0	95	95	BS	0-95	30/28	EV	/			BS
"	0829	75-29	DL	381/382	0	82	82	BS	0-82	30/29	EV	/			BS
"	0850	75400010	RR	382/383	0	68	68	BS	0-68	30/30	EV	/			BS
"	0835	75-29	DL	383/384	0	54	54	BS	0-54	30/30	EV	/			BS
"	0912	75400010	RR	384/385	0	39	39	BS	0-39	30/30	EV	/			BS
"	0914	75-29	DL	385/386	0	22	22	BS	0-22	30/30	EV	/			BS
6/17	1150	75-28	DL	257/344	0	14	14	BS	0-14	30/30	EV	/			BS
"	1202	"	"	257/34	0	4	4	BS	0-4	30/30	EV	/			BS
"	1204	"	"	258/34	0	22	22	BS	0-22	30/30	EV	/			BS
"	1208	"	"	259/346	0	22	22	BS	0-22	30/30	EV	/			BS
"	1212	"	"	260/349	0	22	22	BS	0-22	30/29	EV	/			BS
"	1216	"	"	367/349	0	22	22	BS	0-22	30/30	EV	/			BS
6/18	0935	"	"	349/368	0	14	14	BS	0-14	30/30	EV	/		↓	BS

TOTALS: FUSION: 784 ✓ (ft) CUMULATED FUSION: ~~5774~~ 94,754 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER:

YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/18/08	0938	TS:28	DC	358/368	6	10	10	DC	0-10	30/30	EV	✓		AT	DC
"	0945	TS:28	DC	359/369	0	22	22	DC	0-22	30/30	EV	✓			DC
"	0949	TS:28	DC	351/370	0	18	18	DC	0-18	30/30	EV	✓			DC
"	0953	"	"	354/371	0	22	22	DC	0-22	30/30	EV	✓			DC
"	0957	"	"	354/372	0	22	22	DC	0-22	30/30	EV	✓			DC
"	1001	"	"	355/373	0	18	18	DC	0-18	30/30	EV	✓			DC
"	1005	"	"	355/374	0	22	22	DC	0-22	30/30	EV	✓			DC
"	1009	"	"	355/375	0	14	14	DC	0-14	30/30	EV	✓			DC
"	1014	"	"	366/376	0	22	22	DC	0-22	30/29	EV	✓			DC
"	1018	"	"	366/377	0	22	22	DC	0-22	30/28	EV	✓			DC
"	1022	"	"	366/378	0	15	15	DC	0-15	30/29	EV	✓			DC
"	1025	"	"	352/378	0	8	8	DC	0-8	30/30	EV	✓			DC
"	1027	"	"	356/379	0	18	18	DC	0-18	30/30	EV	✓			DC
"	1030	"	"	365/379	0	4	4	DC	0-4	30/29	EV	✓			DC
"	1034	"	"	365/380	0	23	23	DC	0-23	30/30	EV	✓			DC
"	1038	"	"	365/381	0	23	23	DC	0-23	30/29	EV	✓			DC

TOTALS: FUSION: 2831 (ft) CUMULATED FUSION: ~~6057~~ 95,037 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO. SC4/SC5	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/17/08	0900	75-40-0010	RR	342/344	0	77	77	RS	0-77	30/29	EV	✓		AT	RS
"	0921	"	"	343/345	0	10	10	RS	0-10	30/30	EV	✓			RR
"	0924	"	"	341/344	0	73	75	RS	0-73	30/29	EV	✓			RS
"	0933	"	"	340/343	0	390	390	RS	0-390	30/29	EV	✓			RS
"	1036	"	"	346/349	0	17'	17'	RS	0-17'	30/30	EV	✓			RS
"	1611	75-28	GGM	260/367	0	94	94	RS	0-94	30/30	EV	✓			RS
"	1620	75-40-0010	RR	367/368	0	93	93	RS	0-93	30/29	EV	✓			RS
"	1630	75-28	GGM	368/369	0	93	93	RS	0-93	30/30	EV	✓			RS
"	1631	75-40-0010	RR	369/370	0	93	93	RS	0-93	30/29	EV	✓			RS
"	1640	75-28	GGM	370/371	0	93	93	RS	0-93	30/30	EV	✓			RS
6/18	0648	75-29	DL	371/372	0	93	93	RS	0-93	30/30	EV	✓			RS
"	0650	75-40-0010	RR	372/373	0	93	93	RS	0-93	30/30	EV	✓			RS
"	0712	75-40-0010	RR	373/374	0	93	93	RS	0-93	30/30	EV	✓			RS
"	0718	75-29	DL	374/375	0	93	93	RS	0-93	30/30	EV	✓			RS
6/19	0729	75-40-0010	RR	375/376	0	93	93	RS	0-93	30/30	EV	✓			RS
"	0734	75-29	DL	376/377	0	93	93	RS	0-93	30/30	EV	✓			RS

TOTALS: FUSION: 1591' (ft) CUMULATED FUSION: 7648 96,628 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/18/08	1042	75-28	DC	365/382	0	26	26	BB	0-26	30/30	EV	/		AT	DC
"	1046	"	"	365/383	0	27	27	BB	0-27	30/30	EV	/		↓	DC
"	1050	"	"	365/384	0	26	26	BB	0-26	30/30	EV	/			DC
"	1054	"	"	365/385	0	26	26	BB	0-26	30/30	EV	/			DC
"	1059	"	"	365/386	0	25	25	BB	0-25	30/30	EV	/			DC

TOTALS: FUSION: 130 (ft) CUMULATED FUSION: 7778 96,758 (ft)

EXTRUSION: (ft) CUMULATED EXTRUSION: (ft)

COMMENTS:

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/18	1140	75:25	PC	271/C12	79	95	16		79-95	30/30	GV	✓		HOLD	
"	1000	75:28	PC	323/C6	0	147	147		0-147	30/30	GV	✓			
"	1028	"	PC	324/C6	0	147	147		0-147	30/30	GV	✓			
6/16	0830	75:28	PC	263/C7	0	145	145		0-145	30/29	GV	✓			
6/16	0904	"	"	322/C7	0	145	145		0-145	30/30	GV	✓			
6/13	0744	75:29	PC	325/C8	0	122	122		0-122	30/30	GV	✓			
"	0826	"	PC	326/C8	0	122	122		0-122	30/30	GV	✓			
"	1104	"	"	333/C10	0	90	90		0-90	30/30	GV	✓			
"	1147	"	"	334/C10	0	90	90		0-90	30/30	GV	✓			
"	1215	"	"	335/C9	0	132	132		0-132	30/30	GV	✓			
"	1508	"	"	336/C9	0	132	132		0-132	30/30	GV	✓			
6/14	0710	"	"	330/C11	0	151	151		0-151	30/30	GV	✓			
"	0742	"	"	321/C11	0	151	151		0-151	30/30	GV	✓			
6/18	1405	75:25	PC	266/C14	0	300	300		0-300	30/30	EV	✓			
"	1215	"	"	266/C14	0	365	365		0-365	30/30	EV	✓			
"	1536	"	"	369/C14	0	80	80		0-80	30/28	EV	✓		↓	

TOTALS: FUSION: ~~2104~~ 2335 (ft) CUMULATED FUSION: ~~24253~~ 99,093 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/18	1547	75-25	PC	267/C14	0	~~144~~ 44	44		0-44	30/30	EV	✓		ATOL	
"	1629	"	PC	265/C15	0	100	100		22-100	30/30	EV	✓			
"	1612	"	"	262/C15	0	100	100		0-100	30/29	EV	✓			
6/19	0916	75-28	"	56/C40	0	383	383		0-383	30/30	EV	✓			
"	1023	75-28	"	57/C40	0	155	155		0-155	30/30	EV	✓			
"	1000	"	"	58/C40	0	228	228		0-228	30/30	EV	✓			
6/16	0830	75-28	PC	263/						30/29	EV	✓			
6/16	0805	75-28	PC	322/						30/30	EV	✓			
6/20	1507	75-35	GM	309/C39	0	108	108		0-108	30/30	EV	✓		ATOL	
"	1532	"	GM	308/C39	0	108	108		0-108	30/30	EV	✓			
"	1432	"	"	307/C38	0	108	108		0-108	30/30	EV	✓			
"	1401	"	"	306/C38	0	108	108		0-108	30/30	EV	✓			
"	1150	"	"	304/C37	0	108	108		0-108	30/30	EV	✓			
"	1126	"	"	303/C37	0	108	108		0-108	30/30	EV	✓			
"	1030	"	"	301/C36	0	108	108		0-108	30/29	EV	✓			
"	1058	"	"	300/C36	0	108	108		0-108	30/30	EV	✓			
									0-108	30/28	EV	✓			

TOTALS: FUSION: ~~1766~~ 1,874 (ft) CUMULATED FUSION: ~~26019~~ 100,967 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/8	0900	75-25	PC	267/C12	57	57	16	EK	~~57-57~~	~~30~~/30	EV	✓		AT OIL	
"	0905	"	PC	307/C12	3	19	16	BT	3-16	30/30	EV	✓			
"	0910	"	"	267/C12	73	89	16	BT	73-89	30/30	EV	✓			
"	0915	"	PC	309/C12	9	17	8	BT	9-17	30/30	EV	✓			
"	0920	"	"	269/C12	9	~~17~~ 17	8	BT	9-17	30/30	EV	✓			
"	6925	"	"	310/C12	4	17	13	BT	4-17	30/30	EV	✓			
"	0930	"	"	269/C12	25	38	13	BT	25-38	30/30	EV	✓			
"	0935	"	"	311/C12	3	19	16	BT	3-19	30/30	EV	✓			
"	0940	"	"	269/C12	~~44~~ 44	60	16	BT	44-60	30/30	EV	✓			
"	6945	"	"	312/C12	3	19	16	BT	3-19	30/30	EV	✓			
"	0950	"	"	269/C12	73	86	10	BT	73-86	30/30	EV	✓			
"	0955	"	"	313/C12	3	19	16	BT	3-19	30/30	EV	✓			
"	1000	"	"	269/C12	87	103	16	BT	87-103	30/30	EV	✓			
"	1005	"	"	314/C12	5	19	14	BT	5-19	30/30	EV	✓			
"	1010	"	"	273/C12	5	19	14	BT	5-19	30/30	EV	✓			
"	1015	"	"	315/C12	3	14	11	BT	3-14	30/30	EV	✓			

TOTALS: FUSION: 225 ✓ (ft) CUMULATED FUSION: ~~19675~~ 101,192 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/18	1020	75:25	PC	273/c12	22	33	11	[illegible]	22-33	30/30	EU	✓		ATOL	[illegible]
"	1025	75:25	"	272/c12	9	24	15	[illegible]	9-24	30/30	EU	✓			[illegible]
"	1030	"	"	316/c12	3	18	15	[illegible]	3-18	30/30	EU	✓			[illegible]
"	1035	"	"	317/c12	3	10	7	[illegible]	3-10	30/30	EU	✓			[illegible]
"	1040	"	"	272/c12	30	37	7	[illegible]	30-37	30/29	EU	✓			[illegible]
"	1045	"	"	317/c12	13	20	7	[illegible]	13-20	30/29	EU	✓			[illegible]
"	1050	"	"	271/c12	13	20	7	[illegible]	13-20	30/29	EU	✓			[illegible]
"	1055	"	"	318/c12	3	18	15	[illegible]	3-18	30/30	EU	✓			[illegible]
"	1100	"	"	271/c12	13	28	15	[illegible]	13-28	30/30	EU	✓			[illegible]
"	1105	"	"	319/c12	3	9	6	[illegible]	3-9	30/29	EU	✓			[illegible]
"	1110	"	"	271/c12	35	41	6	[illegible]	35-41	30/28	EU	✓			[illegible]
"	1115	"	"	319/c12	12	17	5	[illegible]	12-17	30/28	EU	✓			[illegible]
"	1120	"	"	271/c12	47	52	5	[illegible]	47-52	30/30	EU	✓			[illegible]
"	1125	"	"	319/c12	3	18	15	[illegible]	3-18	30/28	EU	✓			[illegible]
"	1130	"	"	271/c12	57	72	15	[illegible]	57-72	30/29	EU	✓			[illegible]
"	1135	"	"	321/c12	3	19	16	[illegible]	3-19	30/30	EU	✓			[illegible]

TOTALS: FUSION: 182 (ft) CUMULATED FUSION: ~~19450~~ 101,374 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
~~6/19~~	~~0900~~	~~75.35~~	~~GGM~~	~~284/C12~~											
6/19	0800	75.35	GGM	284/C12	2	20	18		2-20	30/29	EV	✓		ATOK	
"	0805	"	"	57/C12	9	17	8		9-17	30/30	"	✓		ATOK	
"	0810	"	"	285/C12	2	19	17		2-19	30/28	"	✓			
"	0815	"	"	57/C12	22	36	12		22-36	30/29	"	✓			
"	0825	"	"	286/C12	2	20	18		2-20	30/28	"	✓			
"	0830	"	"	57/C12	43	58	15		43-58	30/30	"	✓			
"	0843	"	"	287/C12	2	8	6		2-8	30/30	"	✓			
"	0848	"	"	57/C12	64	70	6		64-70	30/30	"	✓			
"	0852	"	"	288/C12	3	7	4		3-7	30/30	"	✓			
"	0857	"	"	59/C12	3	7	4		3-7	30/30	"	✓			
"	0900	"	"	C19/286	3	18	15		3-118	30/30	"	✓			
"	0903	"	"	C19/287	3	19	16		3-19	30/30	"	✓			
"	0905	"	GGM	288/C12	13	19	6		13-19	30/30	"	✓			
"	0910	"	GGM	59/C12	13	19	6		15-19	30/30	"	✓			
"	0915	"	"	289/C12	26	40	14		26-40	30/30	"	✓		↓	

TOTALS: FUSION: 169 ✓ (ft) CUMULATED FUSION: ~~10268~~ 101,542 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/19	1100	75.35	GGM	262/C12	90	100	100	BT	90-100	30/28	EV	✓		AT OK	
"	1105	"	"	298/C12	6	19	13	BT	6-19	30/30	EV	✓			
"	1110	"	"	265/C12	6	19	13	BT	6-19	30/30	EV	✓			
"	1115	"	"	299/C12	5	18	13	BT	3-18	30/30	EV	✓			
"	1125	"	"	262/C12	23	40	15	BT	23-40	30/30	EV	✓			
"	1130	"	"	300/C12	3	18	15	BT	3-18	30/30	EV	✓			
"	1135	"	"	265/C12	48	63	15	BT	48-63	30/30	EV	✓			
"	1140	"	"	301/C12	3	18	15	BT	3-18	30/30	EV	✓			
"	1145	"	"	262/C12	70	85	15	BT	70-85	30/30	EV	✓			
"	1150	"	"	302/C12	3	19	16	BT	3-19	30/30	EV	✓			
"	1155	"	"	262/C12	92	108	16	BT	92-108	30/30	EV	✓			
"	1200	"	"	301/C12	5	18	13	BT	5-18	30/30	EV	✓			
6/18	0840	"	"	267/C12	9	26	17	BT	9-26	30/30	EV	✓			
6/18	0845	75.25	PC	305/C12	3	10	7	BT	3-10	30/28	EV	✓			
"	3550	75.25	PC	267/C12	32	39	7	BT	32-39	30/30	EV	✓			
				306/C12	3	19	16	BT	3-19	30/30	EV	✓			

TOTALS: FUSION: 200 ✓ (ft) CUMULATED FUSION: ~~19100~~ 101,850 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER:

YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/19	0920	75:35	GGM	59/C12	26	40	14	BS	26-40	30/30	GV	✓		ATDR	SR
"	0925	"	"	290/C12	2	8	6		2-8	30/30	EV	✓			AR
"	0930	"	"	59/C12	47	52	5	BS	47-52	30/30	EV	✓			AR
"	0935	"	"	291/C12	3	18	15	BS	3-18	30/30	GV	✓			AR
"	0940	"	"	60/C12	13	28	15	BS	13-12	30/30	GV	✓			AR
"	0945	"	"	292/C12	3	9	6	BS	3-9	30/30	GV	✓			AR
"	0950	"	"	60/C12	35	41	6	BS	35-41	30/30	GV	✓			AR
"	0956	"	"	293/C12	4	17	13	BS	4-17	30/30	GV	✓			AR
"	1001	"	"	292/C12	30	43	13	BS	30-43	30/30	EV	✓			AR
"	1045	"	"	299/C12	3	16	16	BS	3-16	30/30	EV	✓			AR
"	1050	"	"	262/C12	22	35	13	BS	22-35	30/29	GV	✓			AR
"	1025	"	"	295/C12	3	18	15	BS	3-18	30/30	GV	✓			AR
"	1020	"	"	262/C12	44	59	15	BS	44-59	30/30	GV	✓			AR
"	1070	"	"	266/C12	3	18	15	BS	3-18	30/30	GV	✓			AR
"	1035	"	"	262/C12	66	81	15	BS	66-81	30/29	GV	✓			AR
"	1055	"	"	297/C12	3	13	10	BS	3-13	30/29	EV	✓			BS

TOTALS: FUSION: ~~460~~ ~~182~~ 192 (ft) CUMULATED FUSION: ~~102,042~~ ~~101,792~~ 102,042 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/19	0855	75:35	GGM	275/C22	0	131	131	BR	0-131	30/30	GV	✓		AJOK	DS
"	0840	"	GGM	274/C22	0	131	131	BR	0-131	30/30	GV	✓			BR
"	0825	"	"	274/C13	0	~~145~~ 143	~~145~~ 143	BR	0-143	30/30	GV	✓			BR
~~6/18~~	~~1540~~	~~75:35~~	"	55/C13				BR		30/30	GV	✓			BR
6/18	1540	75:35	GGM	55/C23	0	152	152	BR	0-152	30/30	GV	✓			BR
6/18	1510	"	GGM	54/C23	0	143	143	BR	0-143	30/29	GV	✓			BR
6/19	0755	75:35	GGM	55/C13	0	143	143	BR	0-143	30/30	GV	✓			BR
"	0640	"	"	54/C32	0	160	160	BR	0-160	30/29	"	✓			BR
"	0712	"	"	53/C32	0	160	160	BR	0-160	30/30	"	✓			BR
6/20	0758	75:28	PC	53/C51	0	158	158	BR	0-158	30/30	"	✓			BR
"	0738	"	PC	52/C51	0	158	158	BR	0-158	30/30	"	✓			BR
6/19	~~1433~~	"	PC	54/C24	0	555	555	BR	0-555	30/30	"	✓			BR
"	1558	"	"	50/C24	0	555	555	BR	0-555	30/30	"	✓			BR
"	1502	754:10	RR	46/C25	0	132	132	BR	0-132	30/30	"	✓			BR
"	1644	"	RR	47/C25	0	132	132	BR	0-132	30/29	"	✓			BR
"	0940	"	RR	46/C26	145	250	105	BR	0-105	30/30	"	✓			BR

TOTALS: FUSION: ~~2815~~ 2958 (ft) CUMULATED FUSION: ~~2815~~ 105,000 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/18	1556	754.10	RR	2/c 12	122	261	139	RS	122-261	30/29	GV	✓		ATDK	RS
"	~~1545~~ 1530	754.10	RR	3/c16	122	261	139	RS	122-261	30/30	GV	✓			RS
6/18	1445	754.10	RR	2/c16	262	390	128	RS	262-390	30/30	GV	✓			RS
"	1345	"	RR	3/c16	262	390	128	RS	262-390	30/30	GV	✓			RS
"	1155	"	RR	2/16c	391	530	139	RS	530-391	30/29	GV	✓			RS
"	1222	"	RR	3/16c	391	530	139	RS	530-391	30/30	GV	✓			RS
6/21	1426	75.28	PG	9/c50	0	244	244	RS	0-244	30/30	GV	✓			RS
"	1501	75.28	"	10/c50	0	244	"	RS	0-244	30/30	GV	✓			RS
"	1322		"	9/c50	251	436	185	RS	251-436	30/29	GV	✓			RS
"	1352	"	"	10/c50	251	436	185	RS	251-436	30/30	GV	✓			RS
"	1205	"	"	9/c50	436	555	119	RS	436-555	30/30	GV	✓			RS
"	1145	"	"	10/c50	436	555	119	RS	436-555	30/30	GV	✓		↓	RS
"	754.10	1341	RR	12/c49	0	~~337~~ 257	257	RS	0-257	30/30	GV	✓		ATDK	RS
"	"	1645	RR	13/c49	0	108	108	RS	0-108	30/30	GV	✓			RS
"	"	~~1510~~ 1510	RR	13/c49	108	~~337~~ 337	229	RS	108-337	30/30	GV	✓		↓	RS

TOTALS: FUSION: ~~2344~~ 2520 (ft) CUMULATED FUSION: ~~220[illegible]~~ 107,520 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/19	0924	754.10	RR	47/c25	145	250	105		145-250	30/30	GV	✓		ATOK	
"	0830	754.10	RR	46/c25	260	305	45		260-305	30/30	GV	✓			
"	0910	754.10	RR	47/c25	260	305	45		260-305	30/30	GV	✓			
"	0710	"	RR	46/c25	308	555	247		308-555	30/28	GV	✓			
"	0755	"	RR	47/c25	308	555	247		308-555	30/30	GV	✓			
6/19	1126	75.28	PL	50/c24	555	460	95		555-460	30/30	GV	✓			
"	1146	"	PL	51/c24	555	460	95		555-460	30/30	GV	✓			
"	1356	"	"	50/c24	472	295	177		472-295	30/30	GV	✓			
"	1444	"	"	51/c24	472	295	177		472-295	30/30	GV	✓			
"	1006	"	"	50/c24	295	231	64		295-231	30/30	GV	✓			
"	1037	"	"	51/c24	295	231	64		295-231	30/30	GV	✓			
"	1533	"	"	50/c24	233	148	85		233-148	30/30	GV	✓			
"	1551	"	"	51/c24	233	148	85		233-148	30/30	GV	✓			
"	1620	"	"	50/c24	145	0	145		0-145	30/30	GV	✓			
"	1600	"	"	51/c24	145	0	145		0-145	30/30	GV	✓		↓	

TOTALS: FUSION: ~~4232~~ 1821 (ft) CUMULATED FUSION: ~~7047~~ 109,341 (ft)

EXTRUSION: 1821 (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/20	0956	75:35	GGM	300/C35	0	107	107		0-107	30/28	GV	✓		ATOK	
6/20	1013	"	"	299/C35	0	107	107		0-107	30/30	GV	✓			
"	0842	"	GGM	296/C34	0	108	0-108		0-108	30/29	GV	✓			
"	0904	"	GGM	295/C34	0	108	0-108		0-108	30/30	GV	✓			
"	0740	"	C "	293/C33	0	109	0-109		0-109	30/30	GV	✓			
"	0805	"	"	292/C33	0	109	0-109		0-109	30/30	GV	✓			
"	1635	75:35	GGM	290/C26	0	109	0-109		0-109	30/30	GV	✓			
"	1702	"	"	289/C26	0	109	0-109		0-109	30/30	GV	✓			
6/19	1447	"	"	287/C19	0	112	0-112		0-112	30/30	GV	✓			
"	1518	"	"	286/C19	0	112	0-112		0-112	30/29	GV	✓			
"	1650	"	"	285/C20	0	116	0-116		0-116	30/30	GV	✓			
"	1210	"	"	283/C20	0	116	0-116		0-116	30/30	GV	✓			
"	1036	"	"	282/C21	0	100	0-100		0-100	30/30	GV	✓			
"	1110	"	"	281/C21	0	100	0-100		0-100	30/30	GV	✓			
6/19	0925	75:35	GGM	281/C18	0	32	0-32		0-32	30/30	GV	✓			
"	0942	"	"	275/C18	0	51	0-51		0-51	30/30	GV	✓		↓	

TOTALS: FUSION: 1605 ✓ (ft) CUMULATED FUSION: ~~16266~~ 110946 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/20	1041	75:28	PC	35/C29	129	81	48	RS	129-81	30/30	GV	✓		ATOK	RS
6/20	1120	75:29	RR	40/C28	126	0	126	RS	126-0	30/30	"	✓			RS
"	1134	"	"	41/C28	126	0	126	RS	126-0	30/30	"	✓			RS
"	1055	"	"	40/C28	226	127	99	RS	226-127	30/30	"	✓			RS
"	0940	"	"	41/C28	226	127	99	RS	226-127	30/30	"	✓			RS
"	0709	75:29	"	40/C28	549	226	323	RS	549-226	30/30	"	✓			RS
"	0827	75:29	"	41/C28	549	226	323	RS	549-226	30/30	"	✓			RS
6/19	1630	754:10	RR	43/C27	550	396	154	RS	550-396	30/30	"	✓			RS
"	1604	"	RR	44/C27	550	487	63	RS	550-487	30/30	"	✓			RS
"	1545	"	"	44/C27	487	396	91	RS	487-396	30/30	"	✓			RS
"	1520	"	"	43/C27	550	396	154	RS	550-396	30/30	"	✓			RS
"	1503	"	"	44/C27	396	334	62	RS	396-334	30/30	"	✓			RS
"	1446	"	"	43/C27	396	334	62	RS	396-334	30/30	"	✓		↓	RS

TOTALS: FUSION: 1730 ✓ (ft) CUMULATED FUSION: ~~12507~~ 112,1076 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 50 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	0917	75-28	PC	22/C41	555	250	305	RP	555-250	30/30	GV	✓		ATOK	BS
"	1012	75:28	PC	23/C42	555	250	505	BS	555-250	30/30	GV	✓			BS
6/20	1400	75-29	RR	26/C31	555	292	263	BS	555-292	30/30	GV	✓			BS
6/20	1520	"	"	27/C31	555	340	215	BS	555-340	30/30	GV	✓			BS
"	1440	"	"	27/C31	340	292	48	BS	340-292	30/29	GV	✓			BS
"	1642	"	"	26/C31	292	135	157	BS	292-135	30/30	GV	✓			BS
"	1603	"	"	27/C31	292	135	157	RP	292-135	30/29	GV	✓			BS
"	1705	"	"	26/C31	135	0	135	BS	135-0	30/30	GV	✓			BS
"	1728	"	"	27/C31	135	0	135	BS	135-0	30/29	GV	✓			BS
"	1538	75:28	PC	30/C30	0	229	229	RP	0-229	30/29	GV	✓			BS
"	1611	75-28	PC	30/C30	0	229	229	RP	0-229	30/30	GV	✓			BS
"	1405	"	PC	30/C30	229	555	326	BS	229-555	30/30	GV	✓			BS
"	1502	"	PC	31/C30	229	555	326	BS	229-555	30/30	GV	✓			BS
"	1120	"	PC	34/C21	555	129	426	BS	129-426	30/30	GV	✓			BS
"	1153	"	"	35/C29	555	129	426	BS	129-426	30/30	GV	✓			BS
"	1017	"	"	34/C29	129	81	48	BS	129-81	30/30	GV	✓		↓	BS

TOTALS: FUSION: 3730 ✓ (ft) CUMULATED FUSION: ~~10,775~~ 116,406 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 50 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/19	0730	75.29	PC	61/cp54	0	22	22	BR	0-22	30/30	EV	✓		ATOK	BR
"	0725	"	"	60/cp54	0	22	22	BR	0-22	30/30	EV	✓			BR
"	0719	"	"	62/cp54	0	22	22	BR	0-22	30/30	EV	✓			BR
"	0715	"	"	58/cp54	0	22	22	BR	0-22	30/30	"	✓			BR
"	0709	"	"	52/cp54	0	5	5	BR	0-5	30/30	EV	✓			BR
"	0713	"	"	63/cp54	0	5	5	BR	0-5	30/30	"	✓			BR
6/21	0706	75.25	JC	55/cp54	0	17	17	BR	0-17	30/30	"	✓			BR
6/21	0700	"	"	65/cp54	0	17	17	BR	0-17	30/30	"	✓			BR
"	0715	"		54/cp54	0	15	15	BR	0-15	30/30	"	✓			BR
"	0719	"	"	67/cp54	0	15	15	BR	0-15	30/30	"	✓			BR
"	0743	"	"	53/cp54	0	16	16	BR	0-16	30/30	"	✓			BR
"	0737	"	"	69/cp54	0	16	16	BR	0-16	30/30	"	✓			BR
"	0758	"	"	52/cp54	0	16	16	BR	0-16	30/28	"	✓			BR
"	0750	"	"	71/cp54	0	16	16	BR	0-16	30/30	"	✓			BR
"	0812	"	"	51/cp54	0	15	15	BR	0-15	30/30	"	✓			BR
"	0806	"	"	73/cp54	0	15	15	BR	0-15	30/30	"	✓			BR

TOTALS: FUSION: 256 ✓ (ft) CUMULATED FUSION: ~~11,800~~ ~~11,806~~ 11,662 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	0820	75:25	JC	50/c54	0	17	17	BS	0-17	30/30	CV	✓		ATOL	BS
"	0825	"	"	75/c54	0	17	17	BS	0-17	30/30	"	✓			BS
"	0854	"	"	49/c54	0	16	16	DB	0-16	30/30	"	✓			DB
"	0849	"	"	77/c54	0	16	16	DB	0-16	30/30	"	✓			DB
"	0906	"	"	48/c54	0	18	18	DB	0-18	30/29	"	✓			DB
"	0920	"	"	79/c54	0	18	18	BS	0-18	30/28	"	✓			BS
"	0925	"	"	47/c54	0	18	18	BS	0-18	30/30	"	✓			BS
"	0915	"	"	81/c54	0	18	18	BS	0-18	30/30	"	✓			BS
"	0937	"	"	83/c54	0	16	16	DB	0-16	30/30	"	✓			DB
"	0930	"	"	46/c54	0	16	16	DB	0-16	30/30	"	✓			DB
"	0947	"	"	45/c54	0	17	17	BS	0-17	30/29	"	✓			BS
"	0943	"	"	85/c54	0	17	17	BS	0-17	30/30	"	✓			BS
"	0959	"	"	44/c54	0	18	18	DB	0-18	30/30	"	✓			DB
"	0952	"	"	87/c54	0	18	18	DB	0-18	30/30	"	✓			DB
"	1017	"	"	43/c54	0	17	17	BS	0-17	30/30	"	✓			BS
"	1009	"	"	89/c54	0	17	17	BS	0-17	30/30	"	✓		↓	BS

TOTALS: FUSION: 274 (ft) CUMULATED FUSION: ~~18344~~ 116,936 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	1345	75.35	GGM	82/c53	0	22	22	BR	0-22	30/30	GV	✓		ATOL	BR
"	1340	"	"	186/c53	0	22	22	BR	0-22	30/30	GV	✓			BR
"	1355	"	"	83/c53	0	22	22	BR	0-22	30/30	GV	✓			BR
"	1350	"	"	187/c53	0	22	22	BR	0-22	30/30	GV	✓			BR
"	1400	"	"	86/c53	0	21	21	BR	0-21	30/30	GV	✓			BR
"	1405	"	"	188/c53	0	21	21	BR	0-21	30/30	GV	✓			BR
"	1410	"	"	88/c53	0	21	21	BR	0-21	30/30	GV	✓			BR
"	1415	"	"	189/c53	0	21	21	BR	0-21	30/30	GV	✓			BR
"	1420	"	"	90/c53	0	18	18	BR	0-18	30/30	GV	✓			BR
"	1425	"	"	190/c53	0	18	18	BR	0-18	30/30	GV	✓			BR
"	1430	"	"	92/c53	0	20	20	BR	0-20	30/29	GV	✓			BR
"	1435	"	"	191/c53	0	20	20	BR	0-20	30/30	GV	✓			BR
"	1440	"	"	94/c53	0	20	20	BR	0-20	30/30	GV	✓			BR
"	1445	"	"	192/c53	0	20	20	BR	0-20	30/30	GV	✓			BR
"	1450	"	"	95/c53	0	21	21	BR	0-21	30/29	GV	✓			BR
"	1455	"	"	193/c53	0	21	21	BR	0-21	30/30	GV	✓			BR

TOTALS: FUSION: ~~330~~ (ft) CUMULATED FUSION: ~~3139~~ 117,245 (ft)

EXTRUSION: 309 (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	1032	75.25	JC	43/c54	0	18	18	RR	0-18	30/30	EV	✓		ATDK	
"	1022	75.25	"	91/c54	0	18	18	RR	0-18	30/30	EV	✓			
"	1045	75.25	"	41/c54	0	17	17	RR	0-17	30/30	EV	✓			
"	1040	75.25	"	93/c54	0	17	17	RR	0-17	30/30	EV	✓			
			"	40/c54											
			"	95/c54			Repair								
6/21	1058	"	"	39/c54	0	17	17	RR	0-17	30/30	EV	✓		ATDK	
"	1053	"	"	96/c54	0	17	17	RR	0-17	30/30	EV	✓			
"	1112	"	"	38/c54	0	18	18	RR	0-18	30/30	EV	✓			
"	1106	"	"	97/c54	0	18	18	RR	0-18	30/30	EV	✓			
"	1125	"	"	99/c54	0	18	18	RR	0-18	30/30	EV	✓			
"	1131	"	"	37/c54	0	18	18	RR	0-18	30/30	EV	✓			
"	1140	"	"	36/c54	0	18	18	RR	0-18	30/30	EV	✓			
"	1136	"	"	101/c54	0	18	18	RR	0-18	30/30	EV	✓			
"	1325	"	"	35/c54	0	17	17	RR	0-17	30/30	EV	✓			
"	1455	"	"	103/c54	0	17	17	RR	0-17	30/30	EV	✓			

TOTALS: FUSION: 246✓ (ft) CUMULATED FUSION: ~~1807~~ 117,491 (ft)

EXTRUSION: (ft) CUMULATED EXTRUSION: (ft)

COMMENTS:

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO. 13/C49	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	1249	754.10	RR	~~1C45~~	~~337~~	351	114	RR	237-351	30/30	RR	✓		ATDK	RR
"	1320	"	"	12/C49	257	446	209	RR	237-446	30/30	"	✓			RR
"	1400	"	"	15/C49	351	446	95	RR	446-351	30/30	"	✓			RR
"	1490	"	"	12/C49	458	555	97	RR	458-555	30/29	"	✓			RR
"	1155	"	"	13/C49	458	555	97	RR	458-555	30/30	"	✓			RR
"	0843	754.10	"	16/C42	555	~~285~~ 285	270	RR	555-285	30/30	"	✓			RR
"	0900	"	"	17/C42	555	~~285~~ 285	270	RR	555-285	30/30	"	✓			RR
"	1015	"	RR	~~16~~/C42	216	457	141	RR	437-296	30/30	"	✓			RR
"	0940	"	RR	17/C42	296	437	141	RR	437-296	30/30	"	✓			RR
"	1056	"	"	16/C42	445	555	110	RR	445-555	30/30	"	✓			RR
"	1035	"	"	17/C42	445	555	110	RR	445-555	30/30	"	✓			RR
6/22	0755	75.28	RR/PC	22/C41	155	~~550~~ 550	155	RR	155-0	30/30	"	✓			RR
"	0817	75.29	PC	23/C41	155	~~550~~ 550	155	RR	155-0	30/30	"	✓			RR
				23/C41	197	354				30/30	"	✓		↓	RR
"	0841	"	PC	22/C41	257	156	95	RR	257-156	30/30	"	✓		ATDK	RR
"	0858	"	PC	23/C41	251	156	95	RR	251-156	30/29	"	✓		ATDK	RR

TOTALS: FUSION: ~~2154~~ 2057 (ft) CUMULATED FUSION: ~~14661~~ 119,548 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	1337	75-25	JC	31/C54	0	19	19	RR	0-19	30/30	EV	✓		ATDK	DE
"	1331	"	"	105/C54	0	19	19	RR	0-19	30/29	EV	✓			
"	1344	"	"	33/C54	0	19	19	RR	0-19	30/29	EV	✓			
"	1350	"	"	107/C54	0	19	19	RR	0-19	30/29	EV	✓			
"	1359	"	"	30/C54	0	18	18	RR	0-18	30/29	EV	✓			
"	1356	"	"	109/C54	0	18	18	RR	0-18	30/29	EV	✓			
"	1410	"	"	31/C54	0	19	19	RR	0-19	30/30	EV	✓			
"	1405	"	"	111/C54	0	19	19	RR	0-19	30/29	EV	✓			
"	1423	75-25	"	30/C54	0	19	19	RR	0-19	30/29	EV	✓			
"	1415	"	"	113/C54	0	19	19	RR	0-19	30/30	EV	✓			
		"	"	29/C54/115	-7	One	Rx	Repair							
		"	"	115/C54		Re Pair									
		"	"	28/C54											
		"	"	117/C54	Repair										
"	1438	"	"	27/C54	"	16	16	RR	0-16	30/30	EV	✓		ATDK	DE
"	1533	"	"	119/C54	"	16	16	RR	0-16	30/30	EV	✓		ATDK	DE

TOTALS: FUSION: 280 ✓ (ft) CUMULATED FUSION: ~~17824~~ 119,708 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	0730	75.35	GGM	174/c43	0	~~133~~ 132	~~175~~ 132	BS	0.175	30/30	GV	✓		ATOR	BS
"	0805	"	"	175/c43	0	~~132~~ 132	~~175~~ 132	BS	0.175 132	30/30	GV	✓			BS
"	0828	75.35	"	175/c44	0	132	132	BS	0.132	30/30	"	✓			BS
"	0856	"	"	176/c44	0	132	132	BS	0.132	30/29	"	✓			BS
"	0925	"	"	179/c45	0	131	131	BS	0.131	30/30	"	✓			BS
"	0950	"	"	180/c45	0	131	131	BS	0.131	30/30	"	✓			BS
"	1015	"	"	182/c46	0	131	131	BS	0.131	30/30	"	✓			BS
"	1047	"	"	183/c46	0	131	131	BS	0.131	30/30	"	✓			BS
"	1126	"	"	186/c47	0	131	131	BS	0.131	30/30	"	✓			BS
"	1158	"	"	187/c47	0	131	131	BS	0.131	30/30	"	✓			BS
6/23	0740	"	"	190/c48	0	130	130	BS	0.130	30/30	"	✓			BS
"	0805	"	"	191/c48	0	130	130	BS	0.130	30/30	"	✓			BS
"	0880	"	"	193/c55	0	129	129	BS	0.129	30/30	"	✓			BS
"	0914	"	"	194/c55	0	129	129	BS	0.129	30/30	"	✓			BS
"	0940	"	"	195/c56	0	133	133	BS	0.133	30/30	"	✓			BS
"	0915	"	"	196/c56	0	133	132	BS	0.133	30/30	"	✓		↓	BS

TOTALS: FUSION: 2098 ✓ (ft) CUMULATED FUSION: ~~2811~~ 121,866 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	1455	75.25	JC	26/c54	0	18	18	BR	0-18	30/30	GV	✓		A.T.D.L.	BR
"	1446	"	"	121/c54	0	18	18	BR	0-18	30/30	GV	✓			BR
"	1514	"	"	95/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
"	1505	"	"	125/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
"	1531	"	"	24/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
"	1525	"	"	125/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
"	1545	"	"	23/c54	0	20	20	BR	0-20	30/30	GV	✓			BR
"	1538	"	"	127/c54	0	20	20	BR	0-20	30/29	GV	✓			BR
6/23	0652	"	"	32/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
6/23	0643	"	"	129/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
"	0759	"	"	21/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
"	0749	"	"	131/c54	0	19	19	BR	0-19	30/30	GV	✓			BR
"	0710	"	"	20/c54	0	20	20	BR	0-20	30/30	GV	✓			BR
"	0702	"	"	133/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0726	"	"	19/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0716	"	"	135/c54	0	20	20	BR	0-20	30/30	"	✓			BR

TOTALS: FUSION: 309✓ (ft) CUMULATED FUSION: ~~7614~~ 122,179 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/23	1040	75:35	GGM	197/c57	0	133	133	BS	0-133	30/29	GV	/		ATK	BS
"	1046	"	"	198/c57	0	133	133	BS	0-133	30/30	GV	/			BS
"	1125	"	"	202/c58	0	132	132	BS	0:132	30/30	GV	/			BS
"	1149	"	"	203/c58	0	132	132	BS	0:132	30/30	GV	/			BS
"	1410	"	"	211/c59	0	124	124	BS	0-124	30/30	GV	/			BS
"	1336	"	"	212/c59	0	124	124	BS	0.124	30/29	GV	/			BS
6/23	1502	75:35	GGM	215/c60	0	123	123	BS	0:123	30/30	GV	/			BS
"	1530	"	"	214/c60	0	123	123	BS	0-123	30/30	GV	/			BS
6/24	0720	75:35	"	215/c61	0	123	123	BS	0-123	30/30	GV	/			BS
"	0654	"	"	216/c61	0	123	123	BS	0-123	30/30	GV	/			BS
"	1356	75:25	X	173/c73	0	43	43	BS	0-43	30/30	GV	/			BS
"	1350	"	"	171/c73	0	43	43	BS	0-43	30/30	GV	/			BS
"	1410	"	"	172/c73	0	32	32	BS	0:32	30/30	GV	/			BS
"	1318	"	"	173/c73	0	32	32	BS	0-32	30/30	GV	/			BS
6/23	1212	"	3C	174/c72	0	45	45	BS	0-45	30/30	GV	/			BS
"	1155	"	"	170/c72	0	45	45	BS	0-45	30/30	GV	/			BS

TOTALS: FUSION: 1510 ✓ (ft) CUMULATED FUSION: ~~32901~~ 123,684 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY: ☑ SECONDARY: ☐ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/23	1125	754 10	RR	B3/C63	25	69	44	RR	25-69	30/29	GV	✓		ATOK	BS
"	"	"	"	B5/C63	53	97	44	BS	53-97	30/30	GV	✓		↓	BS
"	1130	"	"	B3/C63	76	168	91	BS	76-168	30/30	GV	✓			BS
"	1150	"	"	B5/C63	104	195	91	BS	104-195	30/30	GV	✓			BS

TOTALS: FUSION: _____ (ft) CUMULATED FUSION: 123,954 (ft)

EXTRUSION: 270 (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/23	0742	75-25	JC	18/c54	0	19	19	BR	0-19	30/30	EV	✓		AT DK	BR
"	0731	"	"	137/c54	0	19	19	BR	0-19	30/30	EV	✓			BR
"	0815	"	"	17/c54	0	20	20	BR	0-20	30/30	EV	✓			BR
"	0803	"	"	139/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0828	"	"	16/c54	0	19	19	BR	0-19	30/30	"	✓			BR
"	0822	"	"	141/c54	0	19	19	BR	0-19	30/30	"	✓			BR
"	0840	"	"	15/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0834	"	"	143/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0852	"	"	14/c54	0	19	19	BR	0-19	30/30	"	✓			BR
"	0846	"	"	144/c54	0	19	19	BR	0-19	30/29	"	✓			BR
"	0906	"	"	13/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0900	"	"	145/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0925	"	"	12/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0917	"	"	146/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0953	"	"	11/c54	0	20	20	BR	0-20	30/30	"	✓			BR
"	0909	"	"	147/c54	0	20	20	BR	0-20	30/30	"	✓			BR

TOTALS: FUSION: 314 ✓ (ft) CUMULATED FUSION: 16658 124,268 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/28/08	0937	75:25	JC	10/c54	0	20	20	BR	0-20	30/30	GV	/		ATOK	BR
"	0930	"	"	149/c54	0	20	20	BR	0-20	30/30	"	/			BR
"	0951	"	"	9/c54	0	19	19	BR	0-19	30/30	"	/			BR
"	0944	"	"	151/c54	0	19	19	BR	0-19	30/30	"	/			BR
"	1005	"	"	8/c54	0	20	20	BR	0-20	30/30	"	/			BR
"	0957	"	"	153/c52	0	20	20	BR	0-20	30/30	"	/			BR
"	1017	"	"	7/c54	0	20	20	BR	0-20	30/29	"	/			BR
"	1011	"	"	155/c54	0	20	20	BR	0-20	30/30	"	/			BR
"	1031	"	"	6/c54	0	20	20	BR	0-20	30/30	"	/			BR
"	1025	"	"	158/c54	0	20	20	BR	0-20	30/30	"	/			BR
"	1031	"	"	4/c54	0	20	20	BR	0-20	30/30	"	/			ML
"	1035	"	"	160/c54	0	20	20	BR	0-20	30/30	"	/		ATOK	BR
"	1043	"	"	4/c54	0	20	20	BR	0-20	30/30	"	/			BR
"	1037	"	"	162/c54	0	20	20	BR	0-20	30/30	"	/		ATOK	BR
"	1055	"	"	3/c54	0	20	20	BR	0-20	30/30	"	/			BR
"	1049	"	"	164/c54	0	20	20	BR	0-20	30/30	"	/			BR

TOTALS: FUSION: ~~370~~ 318 (ft) CUMULATED FUSION: ~~170~~ 129,586 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/23	1043	75.28	RC	256/c70	0	21	21	BS	0-21	30/30	EV	/		ATDL	BS
"	1621	"	"	257/c70	0	21	21	BS	0-21	30/30	"	/			BS
6/24	1003	75.35	EGM	218/c74	0	20	20	RR	0-20	30/30	EV	/			RR
"	1028	"	"	219/c74	0	20	20	RR	0-20	30/30	EV	/			RR
6/25	0910	754 10	RR	84/c63	0	51	51	RR	0-51	30/30	"	/	/		RR
"	0848	"	RR	86/c63	0	51	51	RR	0-51	30/30	"	/	/		RR
"	0920	"	"	84/c63	54	82	28	RR	54-82	30/30	"	/			RR
"	0855	"	"	86/c63	54	82	28	RR	54-82	30/30	"	/			RR
"	1000	"	"	84/c63	88	135	47	RR	88-135	30/29	"	/			RR
"	0930	"	"	86/c63	88	135	47	RR	88-135	30/29	"	/			RR
"	1015	"	"	84/c63	142	196	54	RR	142-196	30/30	"	/			RR
"	0940	"	"	86/c63	142	196	54	RR	142-196	30/30	"	/			RR
"	1028	"	"	84/63	196	224	28	RR	196-224	30/28	"	/			RR
"	1040	"	"	85/c63	0	28	28	RR	0-28	30/30	"	/			RR
"	1055	"	"	83/c63	0	25	25	RR	0-25	30/30	"	/			RR
"	1845	"	"	85/c63	28	53	25	BS	28-53	30/29	"	/			BS

TOTALS: FUSION: 548 (ft) CUMULATED FUSION: 125,134 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

PRIMARY: ☑ SECONDARY: ☐ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/23	0939	FS40000	RR	89/C63	0	227	227	RR	0-227	30/28	EV	✓		A.TOL	TB
"	1054	"	"	86/C63	0	200	200	TB	0-200	30/30	EV	✓			TB
6/24	0955	75-35	GG	218/C74	0	117	117	TB	0-117	30/28	EV	✓			TB
"	1028	75-35	"	219/C74	0	117	117	TB	0-117	30/30	GV	✓			TB
6/12	1252	75-28	DC	334/L5	0	18	18	TB	0-18	30/30	GV	✓			TB
6/13	1226	75-28	"	335/L5	18	58	40	TB	18-58	30/29	GV	✓			TB
"	1210	"	DC	332/L5	58	96	38	TB	58-96	30/30	GV	✓			TB
"	1205	"	"	A0/C5	96	107	11	TB	96-107	30/30	GV	✓			TB
"	1140	"	"	331/C5	0	107	107	TB	0-107	30/29	GV	✓			TB

TOTALS: FUSION: 875 (ft) CUMULATED FUSION: 126,009 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 5 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
Not D															
6/23	1048	9	SC	21/c54	0	18	18		0-18	30/30	EV	✓		ATDK	ML
6/23	1056	11	SC	166/c54	0	18	18		0-18	30/30	EV	✓		ATDK	ML
6/23	1110	75.25	SC	1/c54	0	21	21		0-21	30/30	GV	✓		ATDK	AR
"	1122	75.25	SC	168/c54	0	21	21		0-21	30/30	GV	✓		ATDK	AR

TOTALS: FUSION: 78 ✓ (ft) CUMULATED FUSION: ~~16344~~ 126,087 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ■ SECONDARY: ☐ OTHER:

YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/24	0725	75:25	SC	1671c53	0	14	14	BB	0-14	30/30	EK	✓		ATDL	BB
6/24	0731	"	"	2461c53	0	14	14	BB	0-14	30/30	"	✓		ATDL	BB

TOTALS: FUSION: 28 ✓ (ft) CUMULATED FUSION: ~~28145~~ 126,115 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/24	0650	75.28	P.C	159/c53	0	17	17	BS	0-17	30/29	EV	/		ATDL	BS
"	0645	"	"	237/c53	0	17	17	BS	0-17	30/30	EV	/			BS
"	0710	"	"	161/c53	0	19	19	BS	0-19	30/30	EV	/			BS
"	0705	"	"	238/c53	0	19	19	BS	0-19	30/30	EV	/			BS
"	0840	75.25	JC	163/c53	0	12	12	BS	0-12	30/30	EV	/			BS
"	0846	75.25	JC	240/c53	0	12	12	BS	0-12	30/30	EV	/			BS
"	0825	"	"	163/c53	0	21	21	BS	0-21	30/30	EV	/			BS
"	0830	"	"	241/c53	0	21	21	BS	0-21	30/30	EV	/			BS
"	0756	"	"	165/c53	0	11	11	BS	0-11	30/30	EV	/			BS
"	0801	"	"	242/c53	0	11	11	BS	0-11	30/30	EV	/			BS
"	0745	"	"	165/c53	0	10	10	BS	0-10	30/30	EV	/			BS
"	0751	"	"	243/c53	0	10	10	BS	0-10	30/30	EV	/			BS
"	0733	"	"	165/c53	0	10	10	BS	0-10	30/30	EV	/			BS
"	0740	"	"	244/c53	0	10	10	BS	0-10	30/30	EV	/			BS
"	0713	"	"	167/c53	0	20	20	BS	0-20	30/30	"	/			ML
"	0719	"	"	245/c53	0	20	20	BS	0-20	30/30	"	/			ML

TOTALS: FUSION: 240 ✓ (ft) CUMULATED FUSION: 28345 126,355 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/24	0847	75-28	P.C.	140/153	0	20	20	BR	0-20	30/30	GV	✓		ATDL	BR
"	0843	"	P.C.	222/c53	0	20	20	BR	0-20	30/30	GV	✓			BR
"	0839	"	"	180/c53	0	19	19	BR	0-19	30/30	GV	✓			BR
"	0835	"	"	223/c53	0	19	19	BR	0-19	30/29	GV	✓			BR
"	0828	"	"	150/c53	0	14	14	BR	0-14	30/30	GV	✓			BR
"	0825	"	"	228/c53	0	14	14	BR	0-14	30/30	GV	✓			BR
"	0738	"	"	154/c53	0	18	18	BR	0-18	30/28	GV	✓			BR
"	0742	"	"	232/c53	0	18	18	BR	0-18	30/30	GV	✓			BR
"	0736	"	"	154/c53	0	12	12	BR	0-12	30/30	GV	✓			BR
"	0732	"	"	233/c53	0	12	12	BR	0-12	30/29	GV	✓			BR
"	0726	"	"	157/c53	0	18	18	BR	0-18	30/30	GV	✓			BR
"	0730	"	"	234/c53	0	18	18	BR	0-18	30/30	GV	✓			BR
"	0720	"	"	157/c53	0	16	16	BR	0-16	30/30	GV	✓			BR
"	0724	"	"	235/c53	0	16	16	BR	0-16	30/29	GV	✓			BR
"	0716	"	"	159/c53	0	17	17	BR	0-17	30/29	GV	✓			BR
"	0713	"	"	256/c53	0	17	17	BR	0-17	30/30	GV	✓		↓	BR

TOTALS: FUSION: 2680 ✓ (ft) CUMULATED FUSION: ~~28613~~ 126,623 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/24	1038	75:28	PC	134/c53	0	20	20	RR	0-20	30/30	EV	✓		ATTOL	RR
"	1037	"	"	213/c53	0	20	20	RR	0-20	30/29	EV	✓			RR
"	1025	"	"	136/c53	0	21	21	RR	0-21	30/28	EV	✓			RR
"	1027	"	"	214/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1019	"	"	138/c53	0	20	20	RR	0-20	30/30	EV	✓			RR
"	1025	"	"	215/c53	0	20	20	RR	0-20	30/30	EV	✓			RR
"	1003	"	"	140/c53	0	20	20	RR	0-20	30/30	EV	✓			RR
"	0958	"	"	216/c53	0	20	20	RR	0-20	30/30	EV	✓			RR
"	0948	75-28	PC	217/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0954	"	"	142/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0944	"	"	218/c53	0	20	20	RR	0-20	30/30	EV	✓			RR
"	0940	"	"	145/c53	0	20	20	RR	0-20	30/29	"	✓			RR
"	0932	"	"	144/c53	0	20	20	RR	0-20	30/30	"	✓			RR
"	0934	"	"	219/c53	0	20	20	RR	0-20	30/30	"	✓			RR
"	0900	"	"	146/c53	0	20	20	RR	0-20	30/30	"	✓			RR
"	0858	"	"	221/c53	0	020	20	RR	0-20	30/30	"	✓		V	RR

TOTALS: FUSION: 324 ✓ (ft) CUMULATED FUSION: ~~28937~~ 126,947 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/24	1050	75-38	GGM	226/c	Repair	/ Not a cap		BR							
"	1045	"	"	227/c				BR							
6/24	0911	"	"	221/c 75	0	122	122	BR	c2-122	30/30	EM	✓		ATOK	DB
"	0936	"	"	222/c 75	0	122	122	BR	c2-122	30/30	//	✓			BR
"	1700	75-28	PC	237/c 69	0	108	108	BR	0-108	30/29	"	✓			BR
"	1645	75-28	PC	238/c 69	0	108	108	BR	0-108	30/30	"	✓			BR
6/23	1300	"	"	241/c 64	0	105	105	BR	0-105	30/30	"	✓			BR
"	1318	"	"	242/c 64	0	105	105	BR	0-105	30/30	"	✓			BR
"	1520	"	"	247/c 65	0	103	103	BR	0-103	30/30	"	✓			BR
"	1538	"	"	246/c 65	0	103	103	BR	0-103	30/30	"	✓			BR
"	1638	"	"	248/c 60	0	101	101	BR	0-101	30/30	"	✓			BR
"	1657	"	"	249/c 60	0	101	101	BR	0-101	30/30	"	✓			BR
6/23	1352	"	"	250/67	0	97	97	BR	0-97	30/29	"	✓			BR
"	1330	"	"	251/c 67	0	97	97	BR	0-97	30/30	"	✓			BR
"	1419	"	"	253/c 68	0	94	94	BR	0-94	30/30	"	✓			BR
"	1100	"	"	254/c 68	0	94	94	BR	0-94	30/30	"	✓			BR

TOTALS: FUSION: 1460 ✓ (ft) CUMULATED FUSION: ~~30397~~ 128,407 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21/07	1215	75:35	GGM	118/c53	0	21	21	RR	0-21	30/29	EV	✓		ATTCH	RR
"	1210	75:35	"	205/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1207	75:28	PC	120/c53	0	20	20	RR	0-20	30/30	EV	✓			RR
"	1213	75:28	PC	206/c53	0	20	20	RR	0-20	30/30	EV	✓			RR
"	1204	"	"	122/c53	0	21	21	RR	0-21	30/29	EV	✓			RR
"	1158	"	"	207/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1153	"	"	124/c53	0	21	21	RR	0-21	30/28	EV	✓			RR
"	1148	"	"	208/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1138	"	"	126/c53	0	21	21	RR	0-21	30/29	EV	✓			RR
"	1133	"	"	209/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1129	"	"	128/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1125	"	"	210/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1110	"	"	130/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1115	"	"	211/c53	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1048	"	"	132/c53	0	20	20	RR	0-20	30/29	EV	✓			RR
"	1040	"	"	212/c53	0	20	20	RR	0-20	30/29	EV	✓			RR

TOTALS: FUSION: 332 ✓ (ft) CUMULATED FUSION: ~~30729~~ 128,739 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2007

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/21	1500	75.35	EGM	98/c53	0	21	21	BR	0-21	30/30	EV	✓		ATOL	BR
"	1505	"	"	194/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
"	1510	"	"	98/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
"	1515	"	"	195/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
6/24	1103	"	"	100/c53	0	20	20	BR	0-20	30/30	EV	✓			BR
"	1107	"	"	196/c53	0	20	20	BR	0-20	30/30	EV	✓			BR
"	1112	"	"	108/c53	0	20	20	BR	0-20	30/30	EV	✓			BR
"	1117	"	"	200/c53	0	20	20	BR	0-20	30/30	EV	✓			BR
"	1124	"	"	116/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
"	1129	"	"	201/c53	0	21	21	BR	0-21	30/28	EV	✓			BR
"	1134	"	"	112/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
"	1139	"	"	202/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
"	1145	"	"	114/c53	0	21	21	BR	0-21	30/29	EV	✓			BR
"	1150	"	"	203/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
"	1156	"	"	116/c53	0	21	21	BR	0-21	30/30	EV	✓			BR
"	1206	"	"	204/c53	0	21	21	BR	0-21	30/-	EV	✓		↓	BR

TOTALS: FUSION: 332 ✓ (ft) CUMULATED FUSION: ~~31,061~~ 129,071 (ft)

EXTRUSION: (ft) CUMULATED EXTRUSION: (ft)

COMMENTS:

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ✓ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO. (Steve S-76)	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/25	1551	75:25	JC	172/C72	0	125	125	BS	0-125	30/30	GV	✓		ATDK	BR
"	1533	"	"	170/C72	0	125	125	BR	0-125	30/30	GV	✓			BS
"	1142	"	"	170/C71	0	128	128	BR	0-128	30/30	GV	✓			BS
"	1154	"	"	168/C71	0	128	128		0-128	30/30	GV	✓			BS
"	1506	"	"	170/C71	128	150	150	BR	128-150	30/30	GV	✓			BS
"	1654	"	"	168/C71	128	150	150	BS	128-150	30/30	GV	✓			BS
6/27	0720	75.25	JC	61/C76	0	349	349	BR	0-349	[illegible]	GV	✓			BR
"	0806	"	"	262/C76	0	349	349	BS	0-349	0/355	GV	✓			BS
"	0848	"	"	60/C76	349	545	196	BR	349-545	349-895	GV	✓		↓	BR
				7617											
6/26	0705	75-28	PC	5/52	0	548	548	BR	0-548	30/30	GV	✓		ATDK	BR
6/26	0815	"	"	6/52	0	548	548	BR	0-548	30/29	GV	✓			BR
6/28	0710	75400010	RR	81/C62	0	154	154	BR	0-154	30/30	GV	✓			BR
6/23	0630	"	RR	79/C62	0	154	154	BR	0-154	30/30	GV	✓			BR
"	0920	"	RR	83/C63	227	370	153	BR	227-370	30/29	GV	✓			BR
"	1035	"	"	85/C63	200	370	170	BR	200-370	30/30	GV	✓		↓	BR

TOTALS: FUSION: ~~3580~~ 3527 (ft) CUMULATED FUSION: 3464 132,598 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER:

YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/23	1525	754.10	RR	63/CS3	0	22	22	BR	0-22	30/30	EV	✓		ATD	BR
"	1530	754.10	RR	261/CS4	0	22	22	BR	"	30/30	EV	✓			BR
"	1520	"	"	65/CS4	0	22	22	BR	"	30/30	EV	✓			BR
"	1515	"	"	66/CS4	0	22	22	BR	"	30/30	EV	✓			BR
"	1505	"	"	67/CS5	0	22	22	BR	"	30/30	EV	✓			BR
"	1510	"	"	68/CS5	0	22	22	BR	"	30/30	EV	✓			BR
"	1450	"	"	69/CS6	0	22	22	BR	"	30/29	EV	✓			BR
"	1458	"	"	70/CS6	0	22	22	BR	"	30/29	EV	✓			BR
"	1420	"	"	71/CS7	"	"	"	BR	"	30/30	EV	✓			BR
"	1428	"	"	72/CS7	"	"	"	BR	"	30/30	EV	✓			BR
"	1405	"	"	73/CS8	"	"	"	BR	"	30/30	EV	✓			BR
"	1410	"	"	74/CS8	"	"	"	BR	"	30/29	EV	✓			BR
"	1340	"	"	75/CS9	"	"	"	BR	"	30/30	EV	✓			BR
"	1400	"	"	76/CS9	"	"	"	BR	"	30/30	EV	✓			BR
"	1215	"	"	77/CS10	"	"	"	BR	"	30/30	EV	✓			BR
"	1210	"	"	78/CS10	"	"	"	BR	"	30/30	EV	✓			BR

TOTALS: FUSION: 352 (ft) CUMULATED FUSION: 132,950 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS:

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER: YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/23/08	1200	754.10	RR	79/CS11	0	11	11	RR	0-11	30/30	EV	✓		ATL	RR
"	1205	"	"	80/CS11	0	11	11	RR	0-11	30/29	EV	✓			RR
"	1150	"	"	81/CS12	0	22	22	RR	0-22	30/30	EV	✓			RR
"	1155	"	"	82/CS12	0	22	22	RR	0-22	30/28	EV	✓			RR
"	1800	"	"	87/CS13	0	22	22	RR	0-22	30/30	EV	✓			RR
"	1605	"	"	88/CS14	0	22	22	RR	0-22	30/30	EV	✓			RR
"	1628	"	"	93/CS-2	0	22	22	RR	0-22	30/30	EV	✓			RR
"	1635	"	"	94/CS-2	0	22	22	RR	0-22	30/30	EV	✓			RR
6/24	0720	"	"	97/CS15	0	22	22	RR	0-22	30/29	EV	✓			RR
"	0725	"	"	98/CS15	0	22	22	RR	0-22	30/30	EV	✓			RR
"	0735	"	"	99/CS16	0	13	13	RR	0-13	30/30	EV	✓			RR
"	0740	"	"	100/CS16	0	13	13	RR	0-13	30/30	EV	✓			RR
"	0800	"	"	101/CS17	0	15	15	RR	0-15	30/30	EV	✓			RR
"	0805	"	"	102/CS17	0	15	15	RR	0-15	30/30	EV	✓			RR
"	0825	"	"	103/CS18	0	22	22	RR	0-22	30/30	EV	✓			RR
"	0830	"	"	104/CS10	0	22	22	RR	0-22	30/30	EV	✓		↓	RR

Thaw 6/24/08

TOTALS: FUSION: 298 (ft) CUMULATED FUSION: 133,248 (ft)

EXTRUSION: _____ (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS:

REVIEWED BY: ML

CS - Cross Seam

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

PRIMARY: ☑ SECONDARY: ☐ OTHER:

YEAR: 2008

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST						
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID
6/24	0835	754.10	RR	105/CS 18	0	21	21	RR	0-21	30/30	EV	✓		ATOL	RR
"	0840	"	RR	106/CS 18	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0855	"	"	107/CS 19	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0900	"	"	108/CS 19	0	21	21	RR	0-21	30/29	EV	✓			RR
"	0910	"	"	109/CS 20	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0920	"	"	110/CS 20	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0950	"	"	111/CS 21	0	22	22	RR	0-22	30/30	EV	✓			RR
"	0955	"	"	112/CS 21	0	22	22	RR	0-22	30/30	EV	✓			RR
6/24	0940	75.25	JC	119/CS 22	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0928	75.25	JC	120/CS 22	0	21	21	RR	0-21	30/30	EV	✓			RR
"	0958	"	"	121/CS 23	0	22	22	RR	0-22	30/30	EV	✓			RR
"	0952	"	"	122/CS 23	0	22	22	RR	0-22	30/29	EV	✓			RR
"	1018	"	"	123/CS 24	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1011	"	"	124/CS 24	0	21	21	RR	0-21	30/30	EV	✓			RR
"	1031	"	"	125/CS 25	0	20	20	RR	0-20	30/30	EV	✓			RR
"	1024	"	"	126/CS 25	0	20	20	RR	0-20	30/30	EV	✓		↓	RR

TOTALS: FUSION: _____ (ft) CUMULATED FUSION: 133,586 (ft)

EXTRUSION: 338 (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

Geosyntec consultants

DENISON MINES

PRODUCTION SEAM SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2008

PRIMARY: ☑ SECONDARY: ☐ OTHER:

NDT SPECIFICATIONS: AIR TEST: 30 psi ± 3 psi for 5 minutes VACUUM TEST: _____ psi for minimum _____ seconds

New CS.

Cross seams

PRODUCTION SEAM				LOCATION					NONDESTRUCTIVE TEST							
DATE (day/mo)	TIME	MACHINE NO.	OPER. ID	SEAM NO.	BEGIN	END	ACTUAL SEAM LENGTH (ft)	QA ID	LOCATION (ft)	TEST DETAILS	OPER. ID	PASS	FAIL	ACTION	QA ID	
6/24	1020	754-10	RR	129/CS-54	0	20	20	BS	0-20	30/30	EV	✓		ATCL	BS	Repair 149/150 cross seam
6/24	1025	754-10	RR	130/CS-54	0	20	20	BS	0-20	30/30	EV	✓			BS	
"	1042	75-25	JC	131/CS-54	0	20	20	BS	0-20	30/30	EV	✓			BS	
"	1036	75-25	JC	132/CS-54	0	20	20	BS	0-20	30/29	EV	✓			BS	
"	1054	75-25	JC	133/CS-54	0	20	20	BS	0-20	30/30	EV	✓			BS	
"	1048	75-25	JC	134/CS-54	0	20	20	BS	0-20	30/29	EV	✓			BS	
"	1040	754-10	RR	135/CS-54	0	20	20	BS	0-20	30/30	EV	✓			BS	
"	1045	754-10	RR	136/CS-54	0	20	20	BS	0-20	30/30	EV	✓			BS	
"	1110	75-25	JC	137/CS-54	0	20	20	BS	0-20	30/30	EV	✓			BS	
"	1105	75-25	JC	138/CS-54	0	20	20	BS	0-20	30/30	EV	✓			BS	
"	1020	75-35	GGM	141/CS-54	0	15	15	BS	0-15	30/29	EV	✓			BS	
"	1025	75-35	GGM	142/CS-54	0	15	15	BS	0-15	30/30	EV	✓			BS	

TOTALS: FUSION: _____ (ft) CUMULATED FUSION: 135,566 (ft)

EXTRUSION: 230 (ft) CUMULATED EXTRUSION: _____ (ft)

COMMENTS: _____

REVIEWED BY: ML

APPENDIX F-9

REPAIR SUMMARY LOGS

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER 60MIL HD

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1 P	E	10 OCT	1-2		22-W	DS-1	8	3		74200	015	JS	11 OCT	AT	/		VT	JS
2 P	E	11 OCT	4-5		16-E		3	2		015	JC	JS	17 OCT	AT	/		VT	JS
3 P	E	11 OCT	2-3		3-E		2	2		015	JC	JS	17 OCT	AT	/		VT	JS
4 P	E	11 OCT	7-8		10-W	DS 3	6	2		015	JC	JS	11 OCT	AT	/		VT	JS
5 P	E	11 OCT		13	6-W	8-N	2	2		015	JC	JS	11 OCT	AT	/		VT	JS
6	E	11 OCT	12-13		4-E		3	2		015	JC	JS	25 OCT	RR	/		VT	JS
7	E	11 OCT	11-12		6-E		2	2		015	JC	JS	25 OCT	RR	/		VT	JS
8	E	11 OCT	7-8		1-E		3	5		015	JC	JS	17 OCT	AT	/		VT	JS
9	E	12 OCT		1	4-E	4-S	2	2		015	JC	JS	12 OCT	AT	/		VT	JS
10	E	12 OCT	23-24		5-E		5	3		015	JC	JS	17 OCT	AT	/		VT	JS
11	E	12 OCT	22,23,24			IS	3	2		015	JC	JS	17 OCT	AT	/		VT	JS
12	E	12 OCT	22,24,25			IS	4	2		015	JC	JS	17 OCT	AT	/		VT	JS
13	E	12 OCT	21,23,25			IS	2	2		015	JC	JS	17 OCT	AT	/		VT	JS
14	E	12 OCT	21-22		23-W		3	2		015	JC	JS	17 OCT	AT	/		VT	JS
15	E	12 OCT	26-27				2	2		015	JC	JS	17 OCT	AT	/		VT	JS
16	E	12 OCT	20,21,25	26		IS	6	2		015	JC	JS	17 OCT	AT	/		VT	JS
17	E	12 OCT	19,20,26			IS	2	2		015	JC	JS	17 OCT	AT	/		VT	JS
18	E	12 OCT	19-26,27			IS	2	2		015	JC	JS	17 OCT	AT	/		VT	JS
19	E	12 OCT	1-19		5-E		2	2		015	JC	JS	17 OCT	AT	/		VT	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
20	E	15 OCT	19-26-27	-28	IS		11	4		015	JC	JS	17OCT	AT	/		VT	JS
21	E	16 OCT	1-19	28	IS		6	3		015	JC	JS	25OCT	RR	/		BEAD	JS
22	E	15OCT	1-2	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
23	E	15OCT	2-3	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
24	E	15OCT	3-4	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
25	E	15OCT	4-5	28	IS		5	3		015	JC	JS	17OCT	AT	/		VT	JS
26	E	15OCT	5-6	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
27	E	15OCT	6-7	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
28	E	15OCT	7-8	28	IS		9	3		015	JC	JS	17OCT	AT	/		VT	JS
29	E	15OCT	8-9	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
30	E	15OCT	9-10	28	IS		12	2		015	JC	JS	17OCT	AT	/		VT	JS
31	E	15OCT	10-11	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
32	E	15OCT	11-12	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
33	E	15OCT	12-13	28	IS		5	3		015	JC	JS	17OCT	AT	/		VT	JS
34	E	15OCT	13-14	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
35	E	15OCT	14-15	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
36	E	15OCT	15-16	28	IS		2	2		015	JC	JS	17OCT	AT	/		VT	JS
37	E	15OCT	16-17	28	IS		5	3		015	JC	JS	17OCT	AT	/		VT	JS
38	E	15OCT	17-28		10S		2	2		015	JC	JS	17OCT	AT	/		VT	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☒ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
39	E	150CT	17-18	28	IS		3	2	/	015	JC	JS	170CT	AT	/		VT	JS
40	E	150CT	28-29	/	N	140'	2	2	/	015	JC	JS	170CT	AT	/		VT	JS
41	E	150CT	28-29	/	N	153'	9	2	/	015	JC	JS	170CT	AT	/		VT	JS
42	E	150CT	29-30	/	N	146'	3	3	/	015	JC	JS	250CT	RR	/		BEAD	JS
43	E	150CT	29-30	/	N	164'	6	2	/	015	JC	JS	170CT	AT	/		VT	JS
44	E	160CT	28-29	/	S	13'	2	2	/	015	JC	JS	170CT	AT	/		VT	JS
45	E	160CT	27-28	29-36	IS		13	3	/	015	JC	JS	170CT	AT	/		VT	JS
46	E	160CT	/	36	SN	2'E	2	3	/	015	JC	JS	170CT	AT	/		VT	JS
47	E	160CT	27-36	/	N	56'	6	2	/	015	JC	JS	170CT	AT	/		VT	JS
48	E	160CT	27-36	/	S	1'	2	2	/	015	JC	JS	170CT	AT	/		VT	JS
49	E	160CT	/	29	S	11'	7	2	/	015	JC	JS	170CT	AT	/		VT	JS
50	E	160CT	36-37	29-30	IS		4	4	/	015	JC	JS	170CT	AT	/		VT	JS
51	E	160CT	/	30	S	8'	6	2	/	015	JC	JS	170CT	AT	/		VT	JS
52	E	160CT	30-37	38	IS		2	2	/	015	JC	JS	170CT	AT	/		VT	JS
53	E	160CT	37-38	/	N	7'	2	3	/	015	JC	JS	170CT	AT	/		VT	JS
54	E	160CT	30-38	31	IS		4	2	/	015	JC	JS	170CT	AT	/		VT	JS
55	E	160CT	31-38	/	S	51'	2	2	/	015	JC	JS	170CT	AT	/		VT	JS
56	E	160CT	31-38	32	IS		5	2	/	015	JC	JS	170CT	AT	/		VT	JS
57	E	160CT	32-38	/	N	44'	4	2	/	015	JC	JS	170CT	AT	/		VT	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT)
DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
52	E	16OCT	37-38	30	IS	/	2	2	/	015	JC	JS	17OCT	AT	/		VT	JS
53	E	16OCT	37-38	/	N	7'	3	2	/	015	JC	JS	17OCT	AT	/		VT	JS
54	E	16OCT	30-31	38	IS	/	4	2	/	015	JC	JS	17OCT	AT	/		VT	JS
55	E	16OCT	31-38	/	N	43'	2	2	/	015	JC	JS	17OCT	AT	/		VT	JS
56	E	16OCT	31-32	38	IS	/	5	2	/	015	JC	JS	17OCT	AT	/		VT	JS
57	E	16OCT	32-38	/	N	44'	4	2	/	015	JC	JS	17OCT	AT	/		VT	JS
58	E	16OCT	32-34	38	IS	/	5	2	/	015	JC	JS	17OCT	AT	/		VT	JS
59	E	15OCT	32-33	34	IS	/	2	2	/	015	JC	JS	17OCT	AT	/		VT	JS
60	E	15OCT	31-32	33	IS	/	2	2	/	015	JC	JS	17OCT	AT	/		VT	JS
61	E	15OCT	/	32	14'N	10'W	5	2	/	015	JC	JS	17OCT	AT	/		VT	JS
62	E	15OCT	/	33	5'S	11'E	2	2	/	015	JC	JS	17OCT	AT	/		VT	JS
63	E	15OCT	/	33	11'S	11'E	2	2	/	015	JC	JS	17 OCT	AT	/		VT	JS
64	E	16OCT	34-35	38	IS	/	4	2	/	015	JC	JS	17OCT	AT	/		VT	JS
65	E	16OCT	35-38	/	N	9'	6	2	/	015	JC	JS	17OCT	AT	/		VT	JS
66	E	16OCT	/	38	3'N	6'E	3	2	/	015	JC	JS	17OCT	AT	/		VT	JS
67	E	16OCT	/	38	3'N	7'W	4	3	/	015	JC	JS	17OCT	AT	/		VT	JS
68	E	16OCT	/	39	3'N	9'E	3	3	/	015	JC	JS	17OCT	AT	/		VT	JS
69	E	16OCT	/	39	3'N	8'W	2	2	/	015	JC	JS	17OCT	AT	/		VT	JS
70	E	16OCT	/	39	10'N	8'W	2	2	/	015	JC	JS	17OCT	AT	/		VT	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
71-DS10	E	16OCT	39-40		7'	N	6	2		015	JC	JS	17OCT	AT	X		VTOK	JS
72 DS-11		16OCT	38-39		67'	S	12	2		015	JC	JS	17OCT	AT	X			JS
73 DS-12		16OCT	40-41		3'	S	6	2		015	JC	JS	17OCT	AT	X			JS
74		19OCT		41	1'S	6'W	2	2		015	JC	JS	22OCT	DC	X			JS
75		19OCT	41-42		1'S		2	2		015	JC	JS	22OCT	DC	X			JS
76		18OCT	45-46		4'S		6	2		015	JC	JS	19OCT	JS	X			JS
77		18OCT		45	22-S	8'E	2	2		015	JC	JS	19OCT	JS	X			JS
78		18OCT		45	33-S	6'E	3	2		015	JC	JS	19OCT	JS	X			JS
79		18OCT	44-45		53-S		6	2		015	JC	JS	19OCT	JS	X			JS
80		18OCT	44-45		89-S		29	2		015	JC	JS	19OCT	JS	X			JS
81		18OCT		45	89-S	11-E	3	2		015	JC	JS	19OCT	JS	X			JS
82		18OCT		45	98-S	12-E	2	2		015	JC	JS	19OCT	JS	X			JS
83		18OCT		45	106-S	7-E	2	2		015	JC	JS	19OCT	JS	X			JS
84		18OCT		45	111-S	10-E	2	2		015	JC	JS	19OCT	JS	X			JS
85		18OCT		45	139-S	10-E	3	2		015	JC	JS	19OCT	JS	X			JS
86 DS16		18OCT	44-45				13	2		015	JC	JS	19OCT	JS	X			JS
87 DS17		18OCT	45-47		3-E		5	2		015	JC	JS	19OCT	JS	X			JS
88		18OCT	46-48	45-47			11	3		015	JC	JS	19OCT	JS	X			JS
89	↓	18OCT	46-48		4'W		8	2		015	JC	JS	19OCT	JS	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
90	E	18 OCT	41-42	41-S	144	6'W	7	2		015	JC	JS					V1	
91 DS13	R-347	03 NOV	41-42		4-N		6	2		015	JC	JS	03 NOV	MGM	X		VTOK	JS
92 DS14	R-349	03 NOV	42-43		3-N		5	5		015	JC	JS	03 NOV	MGM	X			JS
93 DS15	E	19 OCT	43-44		6-N		6	2		015	JC	JS	20 OCT	DC	X			JS
94		19 OCT		47	27N	10-W	5	3		015	JC	JS	20 OCT	DC	X			JS
95		19 OCT	48-47		135	N	14	3		015	JC	JS	20 OCT	DC	X		•	JS
96		19 OCT	46-49		1-S		2	2		015	JC	JS	19 OCT	JS	X			JS
97		19 OCT	46-49		6S		2	2		015	JC	JS	19 OCT	JS	X			JS
98		19 OCT	49-50		AT		4	2		015	JC	JS	25 OCT	RR	X			JS
99		19 OCT	49-50		21S		2	2		015	JC	JS	19 OCT	JS	X			JS
100 DS22		19 OCT	50-51	S-	131		7	2		015	JC	JS	20 OCT	DC	X			JS
101		19 OCT	50-51	S	140		2	2		015	JC	JS	20 OCT	DC	X			JS
102		19 OCT	50-51	S	145		7	4		015	JC	JS	20 OCT	DC	X			JS
103		19 OCT		51	145	6'E	3	3		015	JC	JS	20 OCT	DC	X			JS
104		19 OCT		50	147	0-11'W	11	2		015	JC	JS	20 OCT	DC	X			JS
105		19 OCT		50		7'W	3	2		015	JC	JS	20 OCT	DC	X			JS
106		19 OCT		51	145	21E			2	015	JC	JS	20 OCT	DC	X			JS
107		19 OCT		51	146	6'E	1	1		015	JC	JS	20 OCT	DC	X			JS
108	↓	19 OCT	49-50	S-	263		2	2		015	JC	JS	20 OCT	EV	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
109	E	19 OCT	50-51		36'	S	10	2		015	JC	JS	20 OCT	DC	X		VTOK	
110	E	19 OCT	49-50		12-N	-16'	2	2		015	JC	JS	20 OCT	DC	X			
111	E	19 OCT	49-50		8-N	-10'	2	2		015	JC	JS	20 OCT	DC	X			
112	E	19 OCT	51-52	51	143-S, 4-W		8	2		015	JC	JS	20 OCT	DC	X			
113	E	19 OCT	50-51		7'N		15	2		015	JC	JS	20 OCT	DC	X			
114	E	19 OCT		51	39N	7'E	2	2		015	JC	JS	20 OCT	DC	X			
115	E	19 OCT	52-53		7'N		6	2		015	JC	JS	20 OCT	DC	X			
116	E	19 OCT		54	4N	2'E	2	2		011	CG	JS	20 OCT	DC	X			
117 DS25	E	19 OCT	53-54		44-N		8	2		011	CG	JS	20 OCT	DC	X			
118 DS26	E	19 OCT	53-54		108	N	10	2		011	CG	JS	20 OCT	DC	X			
119 DS23	E	19 OCT	51-52		AT		4	2		015	JC	JS	25 OCT	RR	X		•	
120	E	20 OCT	53-54		AT		5	4		015	JC	JS	20 OCT	EV	X			
121 DS 29	E	19 OCT	56-59		3S		5	2		015	JC	JS	20 OCT	EV	X			
122 DS28	E	19 OCT	55-56		180	S	7	2		015	JC	JS	20 OCT	DC	X			
123	E	19 OCT		56	5N	10W	3	2		011	CG	JS	20 OCT	DC	X			
124	E	19 OCT		57	5N	6W	2	2		011	CG	JS	20 OCT	DC	X			
125	E	19 OCT		57	4N	11E	2	2		015	JC	JS	20 OCT	DC	X			
126	E	19 OCT		57	6N	3W	2	2		015	JC	JS	20 OCT	DC	X			
127 DS	31 E		58-59		REPLACED-NOT WELDED						R-448							

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
128	E	23 OCT		59	14N	9W	2	2		015	JC	JS	24 OCT	DC	X		VTOK	JS
129 DS	32 E	10 NOV	59-60		4N		4	2		015	JC	JS	12 NOV	JS	X			JS
130	E	19 OCT		57	109	N-7W	4	2		011	CG	JS	20 OCT	DC	X			JS
131 DS	36 E	23 OCT	59-60		155	N	5	2		015	JC	JS	24 OCT	DC	X			JS
132	E	20 OCT	59-60		90S		2	2		015	JC	JS	20 OCT	EV	X			JS
133	E	19 OCT		48	5N	3E	4	2		015	JC	JS	20 OCT	DC	X			JS
134	E	23 OCT		60	15N	12W	2	2		015	JC	JS	24 OCT	DC	X			JS
135 DS	33 E		60-61		4-N	REPLACED - NOT WELDED							R-450					
136	E	23 OCT		61	15-N	5E	2	2		015	JC	JS	24 OCT	DC	X			JS
137	E	23 OCT		61	6N	7W	2	2		015	JC	JS	24 OCT	DC	X			JS
138 DS	37 E	23 OCT	60 GT		205	N	6	2		015	JC	JS	24 OCT	DC	X			JS
139	E	20 OCT	60-61		123	S	2	2		015	JC	JS	20 OCT	EV	X			JS
140	E	20 OCT	60-61		63	S	4	2		015	JC	JS	20 OCT	EV	X			JS
141 DS	34 E	23 OCT	61-62		3S		6	2		015	JC	JS	25 OCT	RR	X			JS
142 DS	35 E	22 OCT	62-63		3-S		6	2		015	JC	JS	25 OCT	RR	X			JS
143	E	22 OCT	63-64		4S		7	2		015	JC	JS	25 OCT	RR	X			JS
144	E	24 OCT	61-62		115	S	33	3		015	JC	JS	24 OCT	DC	X			JS
145 DS	39 E	24 OCT	62-63		117	S	6	2		015	JC	JS	24 OCT	DC	X			JS
146	E	24 OCT	63-64		135	S	23	6		015	JC	JS	24 OCT	DC	X			JS

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
147	E	24OCT		64	135	S, 8E	11	4		015	JC	JS	24OCT	DC	X		VTOK	JS
148	E	24OCT		63	137	S	20	3		015	JC	JS	24OCT	DC	X			JS
149	E	24OCT		62	137	S	22	3		015	JC	JS	24OCT	DC	X			JS
150	E	23OCT	63-64		293	N	2	2		015	JC	JS	24OCT	DC	X			JS
151	E	23OCT	63-64		270	N	2	2		015	JC	JS	24OCT	DC	X			JS
152	E	23OCT	63-64		256	N	2	2		015	JC	JS	24OCT	DC	X			JS
153	E	23OCT	63-64		117	N	2	2		015	JC	JS	24OCT	DC	X			JS
154	E	23OCT	63-64		80	N	2	2		015	JC	JS	24OCT	DC	X			JS
155 DS	40 E	25OCT	63-64		63	N	6	3		015	RR	JS	25OCT	RR	X			JS
156	G	23OCT	63-64		38	N	2	2		015	JC	JS	24OCT	DC	X			JS
157	E	23OCT		62	21N	11E	2	2		015	JC	JS	24OCT	DC	X			JS
158	E	23OCT		64	11N	11E	6	2		015	JC	JS	24OCT	DC	X			JS
159	E	23OCT		65	18	N 9E	3	2		015	JC	JS	24OCT	DC	X			JS
160	E	25OCT		65	18	N 13E	2	2		015	RR	JS	25OCT	RR	X			JS
161	E	25OCT	65-66		4	N	5	2		015	RR	JS	25OCT	RR	X			JS
162	E	23OCT		66	17	N, 10E	2	2		015	JC	JS	23OCT	DC	X			JS
163	E	23OCT		66	17	N, 13E	2	2		015	JC	JS	23OCT	DC	X			JS
164	E	23OCT	66-67		228	S	2	2		015	JC	JS	24OCT	DC	X			JS
165 DS	41 E	24OCT	64-65		138	S	6	2		015	JC	JS	24OCT	DC	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
166	E	23OCT	64-65		123	S	12	4		015	JC	JS	24OCT	DC	X		VTOR	JS
167	E	23OCT	65-66		128	S	4	2		015	JC	JS	24OCT	DC	X			JS
168	E	22OCT		67	108	S,2E	2	2		015	JC	JS	24OCT	DC	X			JS
169	E	22OCT	65-66		AT		2	2		015	JC	JS	25OCT	RR	X			JS
170 DS	43 E	24OCT	66-67		4	S	6	2		015	JC	JS	25OCT	RR	X			JS
171 DS	44 E	24OCT	67-68		4	S	6	2		015	JC	JS	25OCT	RR	X			JS
172	E	24OCT	68-69		1	S	2	2		015	JC	JS	25OCT	RR	X			JS
173 DS	50	25OCT	69-70		75	S	7	2		015	RR	JS	25OCT	RR	X			JS
174 DS	45	24OCT	68-69		131	S	10	2		015	JC	JS	24OCT	DC	X			JS
175	E	24OCT		69,70	131	S	23	3		015	JC	JS	25OCT	RR	X			JS
176	E	24OCT	69-70		128	S	5	5		015	JC	JS	25OCT	RR	X			JS
177	E	24OCT		69	128	S	5	5		015	JC	JS	25OCT	RR	X			JS
178	E	23OCT	67-68		358	N	5	4		015	JC	JS	25OCT	RR	X			JS
179	E	23OCT	67-68		354	N	7	2		015	JC	JS	24OCT	DC	X			JS
180 DS	46 E	24OCT	69-70		216	N	7	2		015	JC	JS	25OCT	RR	X			JS
181	E	23OCT	67		12	N,12E	7	2		015	JC	JS	24OCT	DC	X			JS
182	E	23OCT	68		12	N,11E	6	2		015	JC	JS	24OCT	DC	X			JS
183	E	25OCT	69		9	N,9E	4	2		015	RR	JS	25OCT	RR	X			JS
184	E	25OCT	70		15	N,10E	2	2		015	RR	JS	25OCT	RR	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT)
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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
185 DS	49 E	24 OCT	72-73		349	N	7	2		015	JC	JS	26 OCT	AT	X		VTOK	JS
186	E	24 OCT	72-73		192	S	3	2		015	JC	JS	26 OCT	AT	X			JS
187 DS	48 E	24 OCT	71-72		175	S	6	2		015	JC	JS	26 OCT	AT	X			JS
188 DS	47 E	24 OCT	70-71		135	S	11	2		015	JC	JS	25 OCT	RR	X			JS
189	E	24 OCT		70	127	S, 11W	3	2		015	JC	JS	25 OCT	RR	X			JS
190	E	24 OCT		70	126	S, 8W	2	2		015	JC	JS	25 OCT	RR	X			JS
191	E	24 OCT	70-71		124	S	2	2		015	JC	JS	25 OCT	RR	X			JS
192	E	20 OCT	58-59		1	S	3	2		015	JC	JS	20 OCT	EV	X			JS
193	E	25 OCT		26		10W	2	2		015	RR	JS	25 OCT	RR	X			JS
194	E	29 OCT		41		4W	2	2		015	RR	JS	29 OCT	AT	X			JS
195	E	26 OCT	18-74		3E		8	2		015	RR	JS	26 OCT	AT	X			JS
196 DS	52 E	29 OCT	77-78		2E		6	2		015	RR	JS	29 OCT	AT	X			JS
197 DS	54 E	29 OCT	85-86		1E		6	2		015	RR	JS	29 OCT	AT	X			JS
198 DS	55 E	29 OCT	90-91		2E		6	2		015	RR	JS	29 OCT	AT	X			JS
199	E	29 OCT		89	1S	1W	2	2		015	RR	JS	29 OCT	JR	X			JS
200	E	29 OCT	85-86	P-102	3W		6	2		015	RR	JS	29 OCT	JR	X			JS
201	E	29 OCT	84-85	102	1S		2	2		015	RR	JS	10 NOV	HO	X			JS
202 DS	53 E	29 OCT	81-82	102	1S		6	2		015	RR	JS	29 OCT	HO	X			JS
203	E	26 OCT	79-80		20W		2	2		015	RR	JS	26 OCT	AT	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
204	E	26 OCT	78-79		11W		2	2		015	RR	JS	26 OCT	AT	X		VT OK	JS
205	E	26 OCT	19-74		10W		3	3		015	RR	JS	26 OCT	AT	X			JS
206 DS	5 E	29 OCT	18-74		3W		5	2		015	RR	JS	29 OCT	HO	X			JS
207	E	29 OCT		71	22.5N	9E	2	2		015	RR	JS	26 OCT	AT	X			JS
208	E	29 OCT	63-64		5.5N	1W	2	2		015	RR	JS	26 OCT	AT	X			JS
209 DS	38		61-62		4N	REPLACED BY R-525												JS
210	E	01 NOV		125	2S	10E	2	2		015	JC	JS	01 NOV	HO	X			JS
211	E	01 NOV	40-41	125	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
212	E	01 NOV	124-125	40	IS		3	2		015	JC	JS	01 NOV	HO	X			JS
213	E	01 NOV	40-124		6W		2	2		015	JC	JS	01 NOV	HO	X			JS
214	E	01 NOV	40-124	39-124	IS		10	2		015	JC	JS	01 NOV	HO	X			JS
215 DS	67 E	01 NOV	123-124		7S		7	2		015	JC	JS	01 NOV	HO	X			JS
216	E	01 NOV	39-123	38	IS		7	2		015	JC	JS	01 NOV	HO	X			JS
217	E	01 NOV	122-123	38	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
218	E	01 NOV	35-38	122	IS		3	2		015	JC	JS	01 NOV	HO	X			JS
219	E	31 OCT	121-122	35	IS		6	2		015	JC	JS	01 NOV	HO	X			JS
220 DS	65 E	31 OCT	121-122		8S		6	2		015	JC	JS	01 NOV	HO	X			JS
221	E	31 OCT	34-35	121	IS		3	2		015	JC	JS	01 NOV	HO	X			JS
222	E	31 OCT	106-121	34	IS		3	2		015	JC	JS	01 NOV	HO	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
223	E	31 OCT	33-34	106	1S		5	2		015	JC	JS	01 NOV	HO	X			JS
224		31 OCT	105-106	33	1S		3	3		015	JC	JS	01 NOV	HO	X			JS
225		31 OCT	31-33	105	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
226		31 OCT	104-105	31	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
227		31 OCT	104-105		6S		2	2		015	JC	JS	01 NOV	HO	X			JS
228		31 OCT	30-31	104	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
229 DS 50 E		31 OCT	103-104		3S		7	2		015	JC	JS	01 NOV	HO	X			JS
230	E	31 OCT	29-30	103	1S		6	2		015	JC	JS	01 NOV	HO	X			JS
231		31 OCT	102-103	29	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
232		31 OCT	28-29	102	1S		3	2		015	JC	JS	01 NOV	HO	X			JS
233		31 OCT	28-102	28	1S		4	2		015	JC	JS	01 NOV	HO	X			JS
234		31 OCT	28-74	102	1S		4	2		015	JC	JS	01 NOV	HO	X			JS
235		31 OCT	74-75	102	1S		11	2		015	JC	JS	01 NOV	HO	X			JS
236		31 OCT	75-76	102	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
237		31 OCT	76-77	102	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
238		31 OCT	77-78	102	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
239		31 OCT	78-79	102	1S		9	2		015	JC	JS	01 NOV	HO	X			JS
240		31 OCT	79-80	102	1S		2	2		015	JC	JS	01 NOV	HO	X			JS
241	↓	31 OCT	80-81	102	1S		2	2		015	JC	JS	01 NOV	HO	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
242	E	31 OCT	81-82	102	IS		3	2		015	JC	JS	01 NOV	HO	X		VTOK	JS
243 DS	57 E	31 OCT	82-102		9S		6	2		015	JC	JS	01 NOV	HO	X			JS
244	E	31 OCT	82-83	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
245	E	31 OCT	/	83	1W	4S	2	2		015	JC	JS	01 NOV	HO	X			JS
246 DS	56 E	31 OCT	102-103	/	196	N	6	2		015	JC	JS	01 NOV	HO	X			JS
247	E	31 OCT	83-84	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
248		31 OCT	84-85	102	IS		5	2		015	JC	JS	01 NOV	HO	X			JS
249		31 OCT	85-86	102	IS		5	2		015	JC	JS	01 NOV	HO	X			JS
250		31 OCT	86-87	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
251		31 OCT	87-88	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
252		31 OCT	88-89	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
253		31 OCT	89-90	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
254		31 OCT	90-91	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
255		31 OCT	91-92	102	IS		2	2		015	JC	JS	01 NOV	HO	X			JS
256		01 NOV	/	122	265	N-4E	4	2		015	JC	JS	01 NOV	HO	X			JS
257		01 NOV	/	122	275	N-4E	2	2		015	JC	JS	01 NOV	HO	X			JS
258		01 NOV	/	122	287	N-4E	4	2		015	JC	JS	01 NOV	HO	X			JS
259 DS	68 E	01 NOV	124-125	/			6	2		011	RR	JS	01 NOV	HO	X			JS
260	↓	01 NOV	124-125	120	IS		2	2		011	RR	JS	01 NOV	HO	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
261	E	01NOV		124	4N	6W	2	2		011	RR	JS	01NOV	HO	X		VTDIC	JS
262		01NOV	119-120	124	IS		4	4		011	RR	JS	01NOV	HO	X			JS
263		01NOV	123-124	119	IS		3	2		011	RR	JS	01NOV	HO	X			JS
264		01NOV	118-119	123	IS		2	2		011	RR	JS	01NOV	HO	X			JS
265		01NOV		123	4N	8W	2	2		011	RR	JS	01NOV	HO	X			JS
266		01NOV	122-123	118	IS		4	3		011	RR	JS	01NOV	HO	X			JS
267 DS	66 E	01NOV	122-123		3N		4	2		011	RR	JS	01NOV	HO	X			JS
268 DS	63 E	01NOV	117-118	122	3S		5	3		011	RR	JS	01NOV	HO	X			JS
269		01NOV		122	3N	8W	2	2		011	RR	JS	01NOV	HO	X			JS
270		01NOV	121-122	117	IS		2	2		011	RR	JS	02NOV	HO	X			JS
271		01NOV	116-117	121	IS		2	2		011	RR	JS	02NOV	HO	X			JS
272		01NOV		116	2N	5E	2	2		011	RR	JS	02NOV	HO	X			JS
273 DS	64 E	01NOV	106-121	116	3N		6	2		011	RR	JS	02NOV	HO	X			JS
274 DS	62 E	01NOV	115A-116	106	3S		6	4		011	RR	JS	02NOV	HO	X			JS
275	E	01NOV		115A	4S	14E	2	2		011	RR	JS	02NOV	HO	X			JS
276 DS	60 E	01NOV	105-106	115A	IS		8	3		011	RR	JS	02NOV	HO	X			JS
277	E	01NOV	114-115A	105	IS		3	2		011	RR	JS	02NOV	HO	X			JS
278 DS	59 E	01NOV	104-105	114	IS		7	3		011	RR	JS	02NOV	HO	X			JS
279	E	01NOV	113-114	104	IS		3	2		011	RR	JS	02NOV	HO	X		V	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
280	E	01NOV	103-104	113	1S		3	3		011	RR	JS	02NOV	HO	X		VT DIC	JS
281		01NOV	112-113	103	1S		2	2		011	RR	JS	02NOV	HO	X			JS
282		01NOV	103-112	127	1S		6	3		011	RR	JS	02NOV	HO	X			JS
283		01NOV	127-112	130	1S		3	2		011	RR	JS	01NOV	EV	X			JS
284		01NOV	129-130	112	1S		3	3		015	JC	JS	01NOV	EV	X			JS
285		01NOV	127-130	129	1S		2	2		015	JC	JS	01NOV	EV	X			JS
286		01NOV	127-94	95	1S		12	4		011	RR	JS	01NOV	EV	X			JS
287		01NOV	/	94	6N	5W	10	3		011	RR	JS	01NOV	EV	X			JS
288		01NOV	93-94	127	1S		3	2		011	RR	JS	02NOV	HO	X			JS
289		01NOV	92-93	127	1S		3	2		011	RR	JS	02NOV	HO	X			JS
290		01NOV	102-127	92	1S		4	4		011	RR	JS	02NOV	HO	X			JS
291		01NOV	102-127	103	1S		3	2		011	RR	JS	02NOV	HO	X			JS
292		01NOV	128-129	96	1S		2	2		015	JC	JS	01NOV	HO	X			JS
293		01NOV	/	128	3S	8E	3	2		015	JC	JS	01NOV	EV	X			JS
294		01NOV	/	128	9N	8E	2	2		015	JC	JS	01NOV	EV	X			JS
295		01NOV	/	128	7N	8E	2	2		015	JC	JS	01NOV	EV	X			JS
296		01NOV		128	6N	10W	1	1		015	JC	JS	01NOV	EV	X			JS
297		01NOV		128	7S	7W	1	1		015	JC	JS	01NOV	EV	X			JS
298	↓	01NOV	126-97	128	1S		2	2		015	JC	JS	01NOV	EV	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
299	E	01NOV	111-126	128	IS		2	2		015	JC	JS	01NOV	HO	X		VTOK	JS
300		01NOV	112-129		11E		2	2		015	JC	JS	01NOV	HO	X			JS
301		01NOV	/	112	112	S-12E	10	7		015	JC	JS	01NOV	HO	X			JS
302		31OCT	113-114	/	77S		14	5		015	JC	JS	01NOV	HO	X			JS
303		31OCT	113-114	/	120	S	5	2		015	JC	JS	01NOV	HO	X			JS
304		31OCT	114-115	115A	IS		7	2		015	JC	JS	01NOV	HO	X			JS
305		31OCT	115-116	115A	IS		8	2		015	JC	JS	01NOV	HO	X			JS
306		31OCT	115A-116		51	S	6	2		015	JC	JS	01NOV	HO	X			JS
307		01NOV	/	115A	24	S 7E	2	2		011	RR	JS	02NOV	HO	X			JS
308		01NOV	116-117	/	41	S	4	4		015	JC	JS	01NOV	HO	X			JS
309		01NOV	96-97	128	IS		12	2		015	JC	JS	01NOV	HO	X			JS
310		01NOV	97-98	126	IS		2	2		015	JC	JS	02NOV	AT	X			JS
311		01NOV	98-99	126	IS		2	2		015	JC	JS	02NOV	AT	X			JS
312		01NOV	99-100	126	IS		2	2		015	JC	JS	02NOV	AT	X			JS
313		01NOV	100-101	126	IS		2	2		015	JC	JS	02NOV	AT	X			JS
314		02NOV	101-126	/	1SW		4	6		015	JC	JS	02NOV	AT	X			JS
315		02NOV	107-126	/	2S		4	6		015	JC	JS	02NOV	AT	X			JS
316		02NOV	107-108		6S		2	2		015	JC	JS	02NOV	AT	X			JS
317 C	↓	02NOV	107-108	126	IS		2	30		015	JC	JS	02NOV	AT	X		↓	JS

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
318 C	F	02NOV	108-109	110-126			34	2		015	JC	JS	02NOV	AT	X		VTOK	JS
319 C		02NOV	110-111	126			30	2		015	JC	JS	02NOV	AT	X			JS
320 C		02NOV	111-126		8N	E	8	2		015	JC	JS	02NOV	AT	X			JS
321		01NOV		129	11N	7W	8	8	179	015	JC	JS	01NOV	EV	X			JS
322		02NOV		112	105N	10W	2	2		015	JC	JS	02NOV	EV	X			JS
323		02NOV		112	97N	8W	2	2		015	JC	JS	02NOV	EV	X			JS
324		02NOV		112	82N	1W	2	2		015	JC	JS	02NOV	EV	X			JS
325		02NOV	112-113		72N		2	2		015	JC	JS	02NOV	AT	X			JS
326 DS	70 E	03NOV	120-131		116	S	8	3		015	JC	JS	05NOV	AT	X			JS
327		02NOV	120-131		1	N	3	2		015	JC	JS	05NOV	AT	X			JS
328		02NOV	115-116		1	N	4	2		015	JC	JS	05NOV	AT	X			JS
329		03NOV	132-133		118	S	8	3		015	JC	JS	05NOV	AT	X			JS
330 DS	71 E	05NOV	131-132		47	S	6	2		015	JC	JS	05NOV	AT	X			JS
331		03NOV	120-131		0	S	2	2		015	JC	JS	05NOV	AT	X			JS
332		03NOV	120-131	125	IS		15	5		015	JC	JS	05NOV	AT	X			JS
333		03NOV	125-134	131	IS		2	2		015	JC	JS	05NOV	AT	X			JS
334		03NOV	131-132	134	IS		2	2		015	JC	JS	05NOV	AT	X			JS
335		03NOV	134-135	132	IS		3	2		015	JC	JS	05NOV	AT	X			JS
336		03NOV		132	12	S-6W	8	3		015	JC	JS	05NOV	AT	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
337	E	03NOV	132-133	135	1S		3	2		015	JC	JS	05NOV	AT	X		VTOK	JS
338	E	03NOV	135-136	133	1S		3	3		015	JC	JS	05NOV	AT	X		↓	JS
339	E	03NOV	↓	133	7S	6E	2	2		015	JC	JS	05NOV	AT	X			JS
340	E	03NOV	↓	133	5S	9E	3	2		015	JC	JS	05NOV	AT	X			JS
341	E	03NOV	↓	133	4S	12E	4	2		015	JC	JS	05NOV	AT	X			JS
342	E	03NOV	133-136	↓	7W		2	2		015	JC	JS	05NOV	AT	X			JS
343	E	03NOV	↓	136	1S	7E	2	2		015	JC	JS	05NOV	AT	X			JS
344 DS	69 E	05NOV	125-134	↓	9W	N	7	2		015	JC	JS	05NOV	AT	X			JS
345	E	03NOV	125-134	↓	4	S	2	2		015	JC	JS	03NOV	MGM	X			JS
346	E	03NOV	125-134	41-42	1S		10	3		015	JC	JS	03NOV	MGM	X			JS
347	E	03NOV	41-42	↓	5	N	6	2		015	JC	JS	03NOV	MGM	X			JS
348	E	03NOV	134-135	42-43	1S		14	2		015	JC	JS	03NOV	MGM	X			JS
349	E	03NOV	42-43	↓	3	N	5	4		015	JC	JS	03NOV	MGM	X			JS
350	E	03NOV	135-136	43-44	1S		8	2		015	JC	JS	03NOV	MGM	X			JS
351	E	05NOV	95-127	129	1S		2	2		015	JC	JS	05NOV	AT	X			JS
352	E	05NOV	95-96	129	1S		2	2		015	JC	JS	05NOV	AT	X			JS
353	E	06NOV	44-47	137	1S		/	/	2	015	JC	JS	06NOV	MGM	X			JS
354	E	06NOV	136-137	44	1S		3	2		015	JC	JS	06NOV	MGM	X			JS
355	E	06NOV	47-137	↓	11W		2	2		015	JC	JS	06NOV	MGM	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
356	E	06NOV	137-138	47-48	1S		7	2		015	JC	JS	07NOV	AT	X		VTOL	JS
357	E	06NOV	138-141	48-49	1S		7	3		015	JC	JS	07NOV	AT	X			JS
358 DS	20 E	06NOV	48-49	/	3N		4	2		015	JC	JS	07NOV	AT	X			JS
359	E	06NOV	49-141	/	9E		2	2		015	JC	JS	07NOV	AT	X			JS
360	|	06NOV	141-142	49-50	1S		6	2		015	JC	JS	07NOV	AT	X		|	JS
361	|	06NOV	49-50	/	3N		2	2		015	JC	JS	07NOV	AT	X		|	JS
362	|	06NOV	142-143	50-51	1S		8	2		015	JC	JS	07NOV	AT	X		|	JS
363	|	06NOV	133-139	136	1S		4	3		015	JC	JS	07NOV	AT	X		|	JS
364	|	06NOV	136-137	139	1S		5	4		015	JC	JS	07NOV	AT	X		|	JS
365	|	06NOV	139-140	137	1S		2	2		015	JC	JS	07NOV	AT	X		|	JS
366	|	06NOV	/	140	4S	3E	3	2		015	JC	JS	07NOV	AT	X		|	JS
367	|	06NOV	137-138	140	1S		2	2		015	JC	JS	07NOV	AT	X		|	JS
368	|	06NOV	140-144	138	1S		2	2		015	JC	JS	07NOV	AT	X		|	JS
369	|	06NOV	138-141	144	1S		3	2		015	JC	JS	07NOV	AT	X		|	JS
370	|	06NOV	144-145	141	1S		2	2		015	JC	JS	07NOV	AT	X		|	JS
371	|	06NOV	141-142	145	1S		2	2		015	JC	JS	07NOV	AT	X		|	JS
372	|	06NOV	145-146	142	1S		2	2		015	JC	JS	07NOV	AT	X		|	JS
373	|	06NOV	142-143	146	1S		3	2		015	JC	JS	07NOV	AT	X		|	JS
374	↓	06NOV	142-143	/	5A	N	8	3		015	JC	JS	06NOV	HO	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
375	E	06NOV	138-141		51	N	8	3		015	JC	JS	06NOV	HO	X		VTOK	JS
376 DS 75	E	06NOV	138-141		59	N	8	2		015	JC	JS	06NOV	HO	X			JS
377	E	06NOV	137-138	138	54	N	20	4		015	JC	JS	06NOV	HO	X			JS
378	E	06NOV	137-138		61	N	10	4		011	RR	JS	06NOV	HO	X			JS
379	E	06NOV	136-137		49	N	13	5		011	RR	JS	06NOV	HO	X			JS
380	E	06NOV		137	66	N 6E	21	2		011	RR	JS	06NOV	HO	X			JS
381	E	06NOV		137	79	N 3E	5	2		011	RR	JS	06NOV	HO	X			JS
382	E	06NOV	144-145		127	S	7	3		015	JC	JS	07NOV	AT	X			JS
383 DS 74	E	06NOV	140-144		101	S	7	3		015	JC	JS	07NOV	AT	X			JS
384	E	06NOV	140-144		131	S	10	4		015	JC	JS	07NOV	AT	X			JS
385	↓	06NOV		138	103	N	2	2		011	RR	JS	09NOV	AT	X			JS
386		06NOV	142-143		103	N	2	2		011	RR	JS	06NOV	HO	X			JS
387		08NOV	147-148		130	N	8	3		011	RR	JS	08NOV	66M	X			JS
388		08NOV	148-149		152	N	6	2		011	RR	JS	08NOV	66M	X			JS
389		08NOV	150-151		103	N	9	3		011	RR	JS	08NOV	66M	X			JS
390		08NOV	150-151		56	N	8	3		011	RR	JS	08NOV	66M	X			JS
391		08NOV	148-149		53	N	7	3		011	RR	JS	08NOV	66M	X			JS
392		08NOV	147-148		54	N	7	3		011	RR	JS	08NOV	66M	X			JS
393	↓	08NOV	143-147		51	N	2	2		011	RR	JS	08NOV	66M	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
394	E	08NOV	55-56	150-151	IS		5	2		015	JC	JS	09NOV	AT	X		VTOL	JS
395	E	08NOV	149-150	54-55	IS		6	2		015	JC	JS	09NOV	AT	X			JS
396 DS 27	E	08NOV	54-55		3	N	4	2		015	JC	JS	09NOV	AT	X			JS
397	E	08NOV		150	7S	2E	2	2		015	JC	JS	09NOV	AT	X			JS
398	E	08NOV	148-149	53-54	IS		6	2		015	JC	JS	09NOV	AT	X			JS
399	E	08NOV	147-148	52-53	IS		6	2		015	JC	JS	09NOV	AT	X			JS
400	E	08NOV	143-147	51-52	IS		6	3		015	JC	JS	09NOV	AT	X			JS
401 DS 77	E	08NOV	143-147		39	S	7	2		015	JC	JS	09NOV	AT	X			JS
402	C	07NOV	102-103		11	S	21	2		015	JC	JS	07NOV	AT	X			JS
403	C	07NOV	105-106		22	N	44	3		015	JC	JS	07NOV	AT	X			JS
404	E	08NOV		147	138	S-1W	2	3		015	JC	JS	09NOV	AT	X			JS
405 DS 78	E	08NOV	147-148		171	N	6	2		011	JC	JS	09NOV	AT	X			JS
406 DS 79	E	08NOV	148-149		136	S	6	2		015	JC	JS	09NOV	AT	X			JS
407	E	08NOV		143	166	S-11W	3	2		011	JC	JS	09NOV	AT	X			JS
408	C	08NOV	143-147	143	188	S-11W	27	22		015	JC	JS	09NOV	AT	X			JS
409	E	08NOV	150-151	156	IS		2	2		011	RR	JS	09NOV	RR	X			JS
410	E	08NOV	155-156	150	IS		4	3		011	RR	JS	09NOV	RR	X			JS
411	E	08NOV	149-150	155	IS		2	2		011	RR	JS	09NOV	RR	X			JS
412	E	08NOV	154-155	149	IS		3	2		011	RR	JS	09NOV	RR	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
413	E	08NOV	148-149	154	IS		2	2		011	RR	JS	09NOV	RR	X		VTOK	JS
414	↓	08NOV	153-154	148	IS		3	3		011	JC	JS	09NOV	RR	X		↓	JS
415		08NOV	147-148	153	IS	\	2	2		011	JC	JS	09NOV	RR	X			JS
416		08NOV	152-153	147	IS		3	2		011	JC	JS	09NOV	RR	X			JS
417		08NOV	143-147	152	IS		2	2		011	JC	JS	09NOV	RR	X			JS
418	↓	08NOV	146-152	143	IS		5	4		011	JC	JS	09NOV	RR	X			JS
419 DS	80 E	08NOV	149-150	/	25	N	6	2		011	RR	JS	09NOV	AT	X			JS
420 DS	81 E	08NOV	150-151	/	40	N	6	2		011	JC	JS	09NOV	RR	X			JS
421 DS	~~82 E~~ 83	08NOV	155-156	/	28	S	6	2		011	JC	JS	09NOV	AT	X			JS
422	E	08NOV	156-157	155	IS		2	2		011	JC	JS	09NOV	AT	X			JS
423	E	08NOV	146-152	/	124	S	5	4		011	JC	JS	08NOV	DC	X			JS
424	E	08NOV	/	120	124	S-6W	5	4		011	JC	JS	08NOV	DC	X			JS
425	E	08NOV	133-139	/	121	S	7	5		011	JC	JS	07NOV	AT	X			JS
426	E	07NOV	/	139	110	S-6E	2	2		011	JC	JS	07NOV	AT	X			JS
427 DS	82 E	08NOV	153-154	/	79	S	5	2		011	JC	JS	09NOV	AT	X			JS
428	E	06NOV	133-139	/	1	N	2	2		015	JC	JS	07NOV	AT	X			JS
429 DS	72 E	06NOV	139-140	/	1	N	7	2		015	JC	JS	07NOV	AT	X			JS
430 DS	73 E	06NOV	145-146	/	1	N	7	2		015	JC	JS	07NOV	AT	X			JS
431 DS	85 E	10NOV	158-159	/	50	N	12	4		015	JC	JS	10NOV	AO	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
432	E	10NOV	159-160		50	N	12	4		015	JC	JS	10NOV	AO	X		VTOL	JS
433	E	10NOV	160-161		50	N	7	3		015	JC	JS	10NOV	AO	X			JS
434	E	10NOV	160-161		179	S	10	3		015	JC	JS	10NOV	AO	X			JS
435 DS	87 E	10NOV	160-161		136	S	7	3		015	JC	JS	12NOV	JS	X			JS
436	E	10NOV	157-163		81	S	6	3		015	JC	JS	10NOV	RR	X			JS
437		10NOV	165-166		43	S	5	3		015	JC	JS	10NOV	RR	X			JS
438		10NOV	168-169		12	S	6	3		015	JC	JS	10NOV	RR	X			JS
439		09NOV		138	139	N-10E	2	2		015	JC	JS	09NOV	AT	X			JS
440		09NOV		138	143	N-14E	2	2		011	JC	JS	09NOV	AT	X			JS
441		09NOV		138	143	N-4W	2	2		015	JC	JS	09NOV	AT	X			JS
442		09NOV		141	139	N-7E	2	2		011	JC	JS	09NOV	AT	X			JS
443		09NOV		138	221	N-11W	2	2		011	JC	JS	09NOV	AT	X			JS
444		07NOV		137	143	S-14E	2	2		015	JC	JS	07NOV	AT	X			JS
445		10NOV	157-158	56-57	IS		4	4		015	JC	JS	12NOV	JS	X			JS
446 DS	30 E	10NOV	158-159	57-58	IS		5	3		015	JC	JS	12NOV	JS	X			JS
447	E	10NOV	159-160	58-59	IS		4	2		015	JC	JS	12NOV	JS	X			JS
448 DS	31 E	10NOV	58-59		3N		84	2		015	JC	JS	12NOV	JS	X			JS
449 DS	89 E	10NOV	160-161	59-60	3E		9	2		015	JC	JS	12NOV	JS	X			JS
450 DS	33-88 E	10NOV	161-162	60-61	3N		14	4		015	JC	JS	12NOV	JS	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
451	E	10NOV	61-162		10E		2	2		015	JC	JS	12NOV	JS	X		VTOK	JS
452		10NOV	167-168	169	IS		3	2		015	JC	JS	12NOV	JS	X			JS
453		10NOV	167-168	166	IS		2	2		015	JC	JS	12NOV	JS	X			JS
454		10NOV	164-165	166	IS		3	2		015	JC	JS	12NOV	JS	X			JS
455		10NOV	164-165	163	IS		3	2		015	JC	JS	12NOV	JS	X			JS
456		10NOV		165	6S	4E	4	2		015	JC	JS	12NOV	JS	X			JS
457		10NOV		165	12S	4E	2	2		015	JC	JS	12NOV	JS	X			JS
458		10NOV	156-157	163	IS		3	2		015	JC	JS	12NOV	JS	X			JS
459		10NOV	156-163	151	IS		5	4		015	JC	JS	12NOV	JS	X		REJECTS	JS
460 DS	84 E	10NOV	151-158		43N		7	2		015	JC	JS	13NOV	JS	X		12NOV	JS
461		10NOV	151-158	163	IS		3	2		015	JC	JS	12NOV	JS	X		12NOV	JS
462		10NOV	163-164	158	IS		3	2		015	JC	JS	12NOV	JS	X		12NOV	JS
463		10NOV	158-159	164	IS		3	2		015	JC	JS	12NOV	JS	X		12NOV	JS
464		10NOV	164-166	159	IS		2	2		015	JC	JS	12NOV	JS	X		12NOV	JS
465		10NOV	159-160	166	IS		3	2		015	JC	JS	12NOV	JS	X		12NOV	JS
466		10NOV	166-167	160	IS		4	2		015	JC	JS	12NOV	JS	X		12NOV	JS
467		10NOV	160-161	167	IS		3	2		015	JC	JS	12NOV	JS	X		12NOV	JS
468		10NOV	167-169	161	IS		5	2		015	JC	JS	12NOV	JS	X		12NOV	JS
469	↓	10NOV	161-162	169	IS		4	2		015	JC	JS	12NOV	JS	X		12NOV	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT
PROJECT NO.: SC0349
TASK NO.: 02 / 03
DESCRIPTION: Cell 4A
YEAR: 2007
INSTALLER: Comanco Environmental Corporation
☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
470	E	12NOV	170-171		54	N	6	3		015	JC	JS	13NOV	RR	X		VTDK	JS
471		12NOV	171-172		55	N	6	3		015	JC	JS	13NOV	RR	X			JS
472		12NOV	172-173		66	N	6	3		015	JC	JS	13NOV	RR	X			JS
473		12NOV	173-176		44	N	6	3		015	JC	JS	13NOV	RR	X			JS
474		12NOV	171-172		123	S	8	3		015	JC	JS	13NOV	RR	X			JS
475		13NOV	172-173		104	S	2	2		015	JC	JS	13NOV	RR	X			JS
476		13NOV	172-173		112	S	3	3		015	JC	JS	13NOV	RR	X			JS
477		13NOV		173	103	S-9E	2	2		015	JC	JS	13NOV	RR	X			JS
478		13NOV		173	110	S-7W	6	4		015	JC	JS	13NOV	RR	X			JS
479		13NOV	173-174		20	S	2	2		015	JC	JS	13NOV	RR	X			JS
480		13NOV	174-175	173	IS		2	2		015	JC	JS	13NOV	RR	X			JS
481		12NOV		166	91	S-6W	4	2		015	JC	JS	12NOV	RR	X			JS
482 DS	76 E	8NOV	142-143		31	N	7	2		011	JC	JS	9NOV	AT	X			JS
483		9NOV		141	212	N	2	2		011	JC	JS	9NOV	AT	X			JS
484		9NOV	136-137		214	N	2	2		011	JC	JS	9NOV	AT	X			JS
485		8NOV	146-152		2	N	2	2		011	JC	JS	9NOV	AT	X			JS
486		8NOV	154-155		6	N	2	2		011	JC	JS	9NOV	AT	X			JS
487		8NOV	155-157		2	N	2	2		011	JC	JS	9NOV	AT	X			JS
488	↓	12NOV	157-163		3	N	5	3		015	JC	JS	12NOV	JS	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
489	E	12NOV	166-168		1N		4	3		015	JC	JS	12NOV	JS	X		VTDK	JS
490		12NOV		157	18S	6E	3	2		015	JC	JS	12NOV	AT	X			JS
491		12NOV			25S	11W	2	2		015	JC	JS	12NOV	AT	X			JS
492		13NOV	169-178		11S	S	7	3		015	JC	JS	13NOV	RR	X			JS
493		13NOV	179-181		6S	S	6	3		015	JC	JS	13NOV	RR	X			JS
494		13NOV	181-182		4S	S	2	2		015	JC	JS	14NOV	AO	X			JS
495		13NOV	183-184	182	IS		2	2		015	JC	JS	14NOV	AO	X			JS
496		13NOV	183-184		7E		2	2		015	JC	JS	14NOV	AO	X			JS
497		13NOV	182-183		6S		2	2		015	JC	JS	13NOV	RR	X			JS
498		13NOV		181	22S	4E	2	2		015	JC	JS	14NOV	AO	X			JS
499		13NOV	180-181	179	IS		3	2		015	JC	JS	14NOV	AO	X			JS
500		13NOV	180-181	182	IS		2	2		015	JC	JS	14NOV	AO	X			JS
501		13NOV	162-169	178	IS		3	3		015	JC	JS	14NOV	AO	X			JS
502		13NOV	162-170	178	IS		3	2		015	JC	JS	14NOV	AO	X			JS
503		13NOV	178-179	170	IS		2	2		015	JC	JS	14NOV	AO	X			JS
504		13NOV	170-171	179	IS		2	2		015	JC	JS	14NOV	AO	X			JS
505		13NOV	179-180	171	IS		6	3		015	JC	JS	14NOV	AO	X			JS
506		13NOV	171-172	180	IS		2	2		015	JC	JS	14NOV	AO	X			JS
507	↓	13NOV	180-182	172	IS		2	2		015	JC	JS	14NOV	AO	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
508 DS	93 E	13NOV	172-173	182	5N		8	2		015	JC	JS	14NOV	AO	X		VTOL	JS
509		13NOV	182-184	173	1S		2	2		015	JC	JS	14NOV	AO	X			JS
510		13NOV		184	3S	8E	2	2		015	JC	JS	14NOV	AO	X			JS
511		13NOV	173-177	184	1S		5	2		015	JC	JS	14NOV	AO	X			JS
512		14NOV		169	6T	S-6E	2	2		011	JC	JS	14NOV	HT	X			JS
513		14NOV		169	7D	S-9W	4	2		011	JC	JS	14NOV	HT	X			JS
514		14NOV	169-178		1N		2	2		011	JC	JS	14NOV	AO	X			JS
515 DS	94	13NOV	169-178		6S		6	2		015	JC	JS	14NOV	AO	X			JS
516 DS	95	13NOV	179-181		2S		6	2		015	JC	JS	14NOV	AO	X			JS
517	CAP	06NOV	136-137		0-44N		44	2		75-25	MG	JS	06NOV	EV	X		0950-0955	JS
518		14NOV		161	13G	N-2E	2	2		011	JC	JS	14NOV	AT	X			JS
519		14NOV		161	16A	N-8E	2	2		011	JC	JS	14NOV	AT	X			JS
520		14NOV	162-170	162	16J	N	17	20		011	JC	JS	14NOV	AT	X			JS
521		14NOV		162	14S	N-13E	2	2		011	JC	JS	14NOV	AT	X			JS
522 DS	90	13NOV	162-170		16G	S	6	2		015	JC	JS	14NOV	AO	X			JS
523 DS	92	13NOV	171-172		16S		6	2		015	JC	JS	14NOV	AO	X			JS
524		13NOV	162-170	61-62	1S		4	2		015	JC	JS	14NOV	AO	X			JS
525 DS	38	13NOV	61-62		4N		5	2		015	JC	JS	14NOV	AO	X			JS
526 DS	91 ↓	13NOV	62-170		6W		6	2		015	JC	JS	14NOV	AO	X		↓	JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
527	E	13NOV	170-171	62-63	IS		2	2		015	JC	JS	14NOV	AO	X		VTOK	JS
528		13NOV	171-172	63-64	IS		2	2		015	JC	JS	14NOV	AO	X			JS
529		13NOV	172-173	64-65	IS		3	2		015	JC	JS	14NOV	AO	X			JS
530		13NOV	173-174	65-66	IS		6	2		015	JC	JS	17NOV	EV	X			WW
531		13NOV		65	5N	2W	4	2		015	JC	JS	17NOV	EV	X			WW
532		14NOV	176-185		46N		7	3		011	JC	JS	15NOV	AO	X			JS
533		14NOV	187-191		84N		7	3		011	JC	JS	15NOV	AO	X			JS
534 DS	96	15NOV	174-185	175	4N		7	3		011	JC	JS	15NOV	EV	X			JS
535		15NOV	174-185		16N		7	3		011	JC	JS	15NOV	CL	X			JS
536		15NOV	185-186		70S		9	3		011	JC	JS	15NOV	EV	X			JS
537 DS	97	15NOV	185-186		100S		12	3		011	JC	JS	15NOV	CL	X			JS
538		15NOV	186-187		108S		7	4		011	JC	JS	15NOV	CL	X			JS
539		15NOV	187-188	189	IS		12	5		011	JC	JS	15NOV	EV	X			JS
540		15NOV	188-189	192	IS		10	5		011	JC	JS	15NOV	EV	X			JS
541		15NOV	192-193	188	IS		3	2		011	JC	JS	15NOV	EV	X			JS
542		15NOV	192-193		8E		2	2		011	JC	JS	15NOV	EV	X			JS
543		15NOV		188	4S	8E	2	2		011	JC	JS	15NOV	EV	X			JS
544		15NOV		188	14S	8E	2	2		011	JC	JS	15NOV	EV	X			JS
545	↓	15NOV	188-193	70-71	IS		4	2		011	JC	JS	17NOV	EV	X		↓	WW

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
546	E	15NOV	187-188	69-70	IS		4	2		011	JC	JS	15NOV	EV	X		VTOL	WW
547		15NOV	186-187	68-69	IS		3	2		011	JC	JS	15NOV	EV	X			JS
548		15NOV	185-186	67-68	IS		3	2		011	JC	JS	15NOV	EV	X			JS
549		15NOV	174-185	66-67	IS		3	2		011	JC	JS	15NOV	EV	X			JS
550 DS	98	15NOV	186-187	/	46	N	6	2		011	JC	JS	15NOV	EV	X			JS
551 DS	99	15NOV	187-191	/	30	S	6	2		011	JC	JS	15NOV	EV	X			JS
552		15NOV	190-191	187	IS		4	2		011	JC	JS	15NOV	EV	X			JS
553		15NOV	/	191	IS	5E	2	2		011	JC	JS	15NOV	EV	X			JS
554		15NOV	190-191	192	IS		2	2		011	JC	JS	15NOV	EV	X			JS
555		15NOV	189-190	187	IS		3	2		011	JC	JS	15NOV	EV	X			JS
556		15NOV	189-190	192	IS		2	2		011	JC	JS	15NOV	EV	X			JS
557		13NOV	175-176	173	I3		3	2		015	JC	JS	14NOV	EV	X			JS
558		15NOV	175-176	185	IS		3	2		011	JC	JS	15NOV	EV	X			JS
559		13NOV	176-177	173	IS		2	2		015	JC	JS	16NOV	AT	X			JS
560		15NOV	198-199	/	79	S	7	3		011	JC	JS	16NOV	AT	X			JS
561		15NOV	196-197	198	IS		5	4		011	JC	JS	16NOV	AT	X			JS
562		15NOV	196-197	195	IS		4	2		011	JC	JS	16NOV	AT	X			JS
563		15NOV	194-194	/	100	S	6	2		011	JC	JS	16NOV	AO	X			JS
564	↓	15NOV	183-194		8S		5	2		011	JC	JS	16NOV	EV	X		↓	JS

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REVIEWED BY: MR

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
565	E	15NOV	183-194		12S		4	2		011	JC	JS	16NOV	AO	X		VTOL	JS
566		15NOV	183-194		5S		5	4		011	JC	JS	16NOV	AO	X			JS
567		15NOV	183-184	194	IS		2	2		011	JC	JS	16NOV	AT	X			JS
568		15NOV	191-192	200	IS		4	2		011	JC	JS	16NOV	AT	X			JS
569		15NOV	191-198	199-200	IS		9	3		011	JC	JS	16NOV	AT	X			JS
570		15NOV	187-191	198	IS		2	2		011	JC	JS	16NOV	AT	X			JS
571		15NOV	196-198	187	IS		3	3		011	JC	JS	16NOV	AT	X			JS
572		16NOV	186-187	196	IS		3	2		011	JC	JS	16NOV	AT	X			JS
573		16NOV	195-196	186	IS		4	2		011	JC	JS	16NOV	AT	X			JS
574		16NOV	185-186	195	IS		2	2		011	JC	JS	16NOV	AT	X			JS
575		16NOV	194-195	185	IS		2	2		011	JC	JS	16NOV	AT	X			JS
576		16NOV	176-177	185	IS		2	2		011	JC	JS	16NOV	AT	X			JS
577		16NOV	177-185	194	IS		3	2		011	JC	JS	16NOV	AT	X			JS
578		16NOV	184-194	177	IS		4	3		011	JC	JS	16NOV	AT	X			JS
579		16NOV	184-194		40	S	3	3		011	JC	JS	16NOV	AT	X			JS
580		16NOV	184-194		73	S	3	2		011	JC	JS	16NOV	AT	X			JS
581		16NOV	183-194		58	N	3	3		011	JC	JS	16NOV	AT	X			JS
582		16NOV	183-194		2N		5	3		011	JC	JS	16NOV	AT	X			JS
583	CAP	15NOV	183-194				119	2		75-26	RR	JS	15NOV	EV	X			JS

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
584	CAP	15 NOV	194-194				95	2		75-26	RR	JS	15 NOV	EV	X		AT	JS
585	E	14 NOV		182	80S	3W	2	2		011	JC	JS	14 NOV	AO	X		VTOL	JS
586		16 NOV		184	6N	5W	2	2		011	JC	JS	16 NOV	AT	X			JS
587		16 NOV		195	85	S	2	2		011	JC	JS	16 NOV	AT	X			JS
588		16 NOV		196	11	N	2	2		011	JC	JS	16 NOV	AT	X			JS
589		16 NOV	196-198		24	S	2	2		011	JC	JS	16 NOV	AT	X			JS
590		16 NOV		198	54	S 11E	2	2		011	JC	JS	16 NOV	AT	X			JS
591		16 NOV		198	49	S 7W	3	2		011	JC	JS	16 NOV	AT	X			JS
592		16 NOV		199	49	S 6E	2	2		011	JC	JS	16 NOV	AT	X			JS
593		16 NOV		199	36	S 9W	3	3		011	JC	JS	16 NOV	AT	X			JS
594		16 NOV		199	39	S 4W	7	4		011	JC	JS	16 NOV	AT	X			JS
595		16 Nov	73 - 201		295'	N	6	2		011	JC	WW	17 Nov	EV	X			WW
596		16 Nov	73 - 201		290'	N	2	2		011	JC	WW	17 Nov	EV	X			WW
597		16 NOV	201-202		23	N	9	5		015	RR	JS	17 NOV	EV	X			JS
598		16 Nov		202	2' N	5' E	2	3		015	RR	WW	17 Nov	EV	X			WW
599		16 Nov		202	2' N	8' E	2	2		015	RR	WW	17 Nov	EV	X			WW
600		16 Nov		202	10' N	5' E	2	2		015	RR	WW	17 Nov	EV	X			WW
601		16 Nov		202	2' N	6' W	4	2		015	RR	WW	17 Nov	EV	X			WW
602	↓	16 Nov		202	10' N	7' W	2	2		015	RR	WW	17 Nov	EV	X		↓	WW

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
603	E	16NOV		202	19'N	11'E	9	5		015	RR	WW	17Nov	EV	X		VTOK	WW
604	E	16NOV		202	23'S	7'E	2	2		015	RR	WW	17Nov	EV	X		VTOK	WW
605	E	16NOV	202-203		34	N	9	5		015	RR	JS	17NOV	EV	X		VTOK	JS
606	E			40									17Nov	EV	X		VTOK	WW
607	E	16 Nov	202-203		100'	N	2	2		015	RR	WW	17Nov	EV	X		VTOK	WW
608	DS-102E	16Nov	202-203		104'	N	6	3		015	RR	WW	17 Nov	EV	X		VTOK	WW
609	E	16Nov	203-204		82'S		3	2		011	JC	WW	17 Nov	EV	X		VTOK	WW
610	E	16Nov	73-201		5'S		3	2		011	JC	WW	17Nov	EV	X		VTOK	WW
611	E	16Nov	204-205		6'S		2	2		011	JC	WW	17Nov	EV	X		VTOK	WW
612	DS-105E	16Nov	204-205		12'S		6	3		011	JC	WW	17 Nov	EB	X		VTOK	WW
613	E	16NOV	203-204		46	N	11	5		015	RR	JS	17NOV	EV	X		VTOK	JS
614	DS-103E	16 Nov	203-204		7'	N	5	2		015	RR	WW	18Nov	DC	X		VTOK	WW
615	DS-104E	16 NOV	204-205		10'	N	6	3		015	RR	WW	18 NOV	DC	X		VTOK	WW
616	E	17 Nov		201	423'	N 7'W	2	2		011	JC	WW	17Nov	EV	X		VTOK	WW
617	E	17Nov	73-201		424'	N	14	3		011	JC	WW	17 Nov	EV	X		VTOK	WW
618	E	17 Nov	73-201		422	N	21	4		011	JC	WW	17 Nov	EV	X		VTOK	WW
619	E	17 Nov	72-73		423'	N	23	4		011	JC	WW	17 Nov	EV	X		VTOK	WW
620	E	17 Nov		72	425'	N 6'E	23	3		011	JC	WW	17 Nov	EV	X		VTOK	WW
621	E	17NOV		204	207'N	7'E	2	2		011	JC	WW	18 NOV	DC	X		VTOK	WW

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
622	E	17 Nov		204	218'	N 7'E	2	2		011	JC	WW	18 Nov	DC	X		VTDK	WW
623	E	17 Nov		205	325'	N 1'E	2	2		011	JC	WW	18 Nov	DC	X			WW
624	E DS-106	17 Nov	205-206		7'S		7	3		011	JC	WW	18 Nov	DC	X			WW
625	E DS-107	17 Nov	206-207		7'S		6	3		011	JC	WW	18 Nov	DC	X			WW
626	E DS-108	17 Nov	207-208		7'S		6	3		011	JC	WW	18 Nov	DC	X			WW
627	E	17 Nov	207-208		84'	N	2	2		011	JC	WW	18 Nov	DC	X			WW
628	P	17 Nov	208-209		108'	N	8'	3'		011	JC	WW	18 Nov	DC	X			WW
629	E	17 Nov	207-208		439'	N	2	2		011	JC	WW	18 Nov	DC	X			WW
630	E DS-109	17 Nov	208-209		9'S		6	3		011	JC	WW	18 Nov	DC	X			WW
631	E DS-110	17 Nov	209-210		9'S		6	2		011	JC	WW	18 Nov	DC	X			WW
632	E	17 Nov	209-210		389'	N	3	2		011	JC	WW	18 Nov	DC	X			WW
633		17 Nov		209	388	N 4'W	2	2		011	JC	WW	18 Nov	DC	X			WW
634		18 Nov	210-211		57'	N	2	2		011	JC	WW	19 Nov	AT	X			WW
635		18 Nov	210-211		65'	N	2	2		011	JC	WW	19 Nov	AT	X			WW
636		18 Nov	211-212		441'	N	3	2		011	JC	WW	18 Nov	DC	X			WW
637		18 Nov	212-213		157'	N	7'	4'		011	JC	WW	19 Nov	CL	X			WW
638		18 Nov	214-215		182'	N	8'	3'		011	JC	WW	19 Nov	CL	X			WW
639		18 Nov	210-211		6'S		3	2		015	JC	WW	18 Nov	DC	X			WW
640	↓	18 Nov	215-216		8'S		4	2		015	JC	WW	19 Nov	AT	X		↓	WW

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REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☒ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
641	E	19 Nov	216-217		7'S		8	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
642	↓	19 Nov	217-218		111'S		6	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
643		18 Nov	217-218		329'S		6	4		015	JC	WW	19 Nov	AT	X		VTOL	WW
644		18 Nov	218-219		208'N		9	4		015	JC	WW	19 Nov	AT	X		VTOL	WW
645		19 Nov	218-219		7'S	7'S	3	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
646		18 Nov	219-220		309'S		9	4		015	JC	WW	19 Nov	AT	X		VTOL	WW
647		18 Nov	220-221		248'N		8	4		015	JC	WW	19 Nov	AT	X		VTOL	WW
648	E	18 Nov	220-221		148'S		2	2		015	JC	WW	19 Nov	AT	X		VTOL	WW
649	DS-111	19 Nov	210-211		39'N		7	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
650	DS-112	19 Nov	211-212		111'N		7	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
651	DS-113	19 Nov	212-213		172'N		7	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
652	DS-114	19 Nov	213-214		140'N		8	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
653	DS-115	19 Nov	214-215		36'N		6	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
654	DS-116	19 Nov	215-216		18'N		6	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
655	DS-122	19 Nov	214-215		165'N		6	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
656	DS-119	19 Nov	218-219		17'N		6	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
657	DS-120	19 Nov	219-220		18'N		7	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
658	DS-117	19 Nov	216-217		17'S		6	3		015	JC	WW	19 Nov	AT	X		VTOL	WW
659	DS-118	19 Nov	217-218		4'S		6	3		015	JC	WW	19 Nov	AT	X		VTOL	WW

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REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
660 E	DS-121	19 Nov	220-221		4'S		6	3		015	DC	WW	19 Nov	AT	X		VTDL	WW
661	T (E)	20 NOV	71-72-193-222				5	3		015	JC	WW	26 Nov	DC	X			WW
662	T E	20 NOV	192-193-222				3	3		015	JC	WW	26 NOV	DC	X			WW
663	E	20 NOV	192-222		80'N		6	4		015	JC	WW	20 NOV	EV	X			WW
664	E	20 NOV	222-223		90'N		6	4		015	JC	WW	26 NOV	DC	X			WW
665	E	20 NOV	222-223		118'S		7	3		015	JC	WW	26 NOV	DC	X			WW
666	T E	20 NOV	224-230-231				4	3		015	JC	WW	26 NOV	DC	X			WW
667	T E	20 NOV	72-73-222-223				10	5		015	JC	WW	20 NOV	YG	X			WW
668	T E	20 NOV	73-201-223-224				18	4		015	JC	WW	20 NOV	YG	X			WW
669	E	20 NOV	223-224		94'N		12	6		015	JC	WW	20 NOV	EV	X			WW
670	T E	20 NOV	224-229-230				3	2		015	JC	WW	26 NOV	DC	X			WW
671	E	20 NOV	224-229		12'N		7	5		015	JC	WW	26 NOV	DC	X			WW
672	T E	20 NOV	224-228-229				3	2		015	JC	WW	26 NOV	DC	X			WW
673	T E	20 NOV	224-226-227				2	2		015	JC	WW	26 NOV	DC	X			WW
674	E	20 NOV	224-226		40'S		2	2		015	JC	WW	26 NOV	DC	X			WW
675	T E	20 NOV	224-225-226				3	2		015	JC	WW	26 NOV	DC	X			WW
676	T E	20 NOV	201-202-224-225				6	3		015	JC	WW	26 NOV	DC	X			WW
677 E	T DS-101	20 NOV	201-202-224				6	3		015	JC	WW	26 NOV	DC	X			WW
678	T E	20 NOV	224-227-228				5	4		015	JC	WW	26 NOV	DC	X			WW

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
679	E	20 NOV	204-205	1'S			2	2		015	JC	WW	26 NOV	DC	X		VTDL	WW
680		20 NOV	222-223		91'N		8	4		015	JC	WW	26 NOV	EV	X			WW
681	F	20 NOV	199-200-192-232				4	3		015	JC	WW	26 NOV	DC	X			WW
682	F	20 NOV	228-229-238				3	3		015	JC	WW	26 NOV	DC	X			WW
683	F	20 NOV	229-230-238				3	2		015	JC	WW	26 NOV	DC	X			WW
684	F	20 NOV	230-231-238				3	3		015	JC	WW	26 NOV	DC	X			WW
685		20 NOV	229-230		6'W		3	2		015	JC	WW	26 NOV	DC	X			WW
686	F	20 NOV	227-228-238				4	2		015	JC	WW	26 NOV	DC	X			WW
687	F	20 NOV	226-227-238				3	2		015	JC	WW	26 NOV	DC	X			WW
688		20 NOV	226-238		51'N		3	2		015	JC	WW	26 NOV	DC	X			WW
689	F	20 NOV	225-226-238				2	2		015	JC	WW	26 NOV	DC	X			WW
690	F	20 NOV	202-203-225-238				6	3		015	JC	WW	26 NOV	DC	X			WW
691	F	20 NOV	203-204-238-239				7	3		015	JC	WW	26 NOV	DC	X			WW
692		20 NOV	238-239		101'N		6	3		015	JC	WW	26 NOV	DC	X			WW
693	F	20 NOV	237-238-240				3	2		015	JC	WW	26 NOV	DC	X			WW
694	F	20 NOV	231-238-237				3	3		015	JC	WW	26 NOV	DC	X			WW
695	F	20 NOV	236-237-231				4	3		015	JC	WW	26 NOV	DC	X			WW
696	F	20 NOV	224-231-236				3	3		015	JC	WW	26 NOV	DC	X			WW
697	F ↓	20 NOV	224-235-236				3	3		015	JC	WW	26 NOV	DC	X		↓	WW

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
698	F E	20 NOV	223-224-233-235				13	4		015	JC	WW	26 NOV	DC	X		VTOL	WW
699	F	20 NOV	222-223-233				3	3		015	JC	WW	26 NOV	DC	X			WW
700	F	20 NOV	232-233-222				3	3		015	JC	WW	26 NOV	DC	X			WW
701	F	20 NOV	192-222-232				3	3		015	JC	WW	26 NOV	DC	X			WW
702	F	20 NOV	237-240-241				3	3		015	JC	WW	26 NOV	DC	X			WW
706 ~~702~~ WW		26 NOV	199-232		1'N		2	2		015	JC	WW	26 NOV	DC	X			WW
704	F	20 NOV	233-234-235				3	3		015	JC	WW	26 NOV	DC	X			WW
705		20 NOV	232-233		77'S		5	3		015	JC	WW	26 NOV	DC	X			WW
703 ~~706~~ WW	F	20 NOV	234-235-236				3	3		015	JC	WW	26 NOV	DC	X			WW
707		26 NOV	233-234		1'N		2	2		015	JC	WW	26 NOV	DC	X			WW
708		26 NOV	236-232		1'S		2	2		015	JC	WW	26 NOV	DC	X			WW
709	F V	20 NOV	238-239-240				3	3		015	JC	WW	26 NOV	DC	X		V	WW
710 E	DS-125	26 NOV	222-223		15'N		7	2		015	JC	WW	26 NOV	DC	X			BB
711	DS-123	26 NOV	199-232		17'S		7	2		015	JC	WW	26 NOV	DC	X			BB
712	DS-128	26 NOV	224-230		8'N		7	3		015	JC	WW	26 NOV	DC	X			BB
713	DS-126	26 NOV	234-236		1'N		7	3		015	JC	WW	26 NOV	DC	X			BB
714	DS-127	26 NOV	237-241		1'N		7	3		015	JC	WW	26 NOV	DC	X			BB
→ 715	DS-129	26 NOV	228-238		22'N		6	3		015	JC	WW	26 NOV	DC	X		V	BB
716	E	~~28~~ NOV	239-242		102'N		6	3		015	JC	WW	28 NOV	~~DC~~ CL	X		VTOL	WW

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☒ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
R-717	E	28NOV	239-242		111'S		7	3		015	JC	WW	28NOV	CL	X			WW
718	F	28NOV	239-242	205-204			8	3		015	JC	WW	11	DC	X			BB
719	F	28NOV	239-204	205			7	3		015	JC	WW	11	DC	X			BB
720	F	28NOV	205-206	242-243			3	3		015	JC	WW	11	DC	X			BB
721	F	28NOV	206-207	243-244			3	3		015	JC	WW	28NOV	DC	X			BB
722	F	28NOV	207-208	244-245			4	3		015	JC	WW	11	DC	X			BB
723	F	28NOV	208-209	245-246			4	3		015	JC	WW	11	DC	X			BB
724	F	28NOV	209-210	246-247			4	3		015	JC	WW	11	DC	X			BB
725	E	28NOV	242-243		104'S		7	4		015	JC	WW	28NOV	DC	X			WW
726	E	28NOV	242-239		80'N		2	2		015	JC	WW	11	DC	X			BB
727	E	28NOV	244-245		365'S		7	3		015	JC	WW	28NOV	CL	X			WW
728	E	28NOV	244-245		108'S		6	3		015	JC	WW	28NOV	DC	X			WW
729	F	28NOV	246-252	253			4	3		015	JC	WW	11	DC	X			BB
730	E	28NOV	246-252		38'N		7	3		015	JC	WW	28NOV	CL	X			WW
731	F	28NOV	246-251	252			3	2		015	JC		28NOV	DC	X			BB
732	F	28NOV	246-250	251			3	2		015	JC	WW	11	DC	X			BB
733	F	28NOV	246-249	250			3	2		015	JC	WW	11	DC	X			BB
734	F	28NOV	246-248	249			3	3		015	JC	WW	11	DC	X			BB
735		28NOV	246-248		12'N		7	3		015	JC	WW	28NOV	CL	X			WW

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REVIEWED BY: _____

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
736	F E	28NOV	246-247	248				2	2	015	JC	WW	28NOV	CT	X		VTOL	BB
737 E	DS-130	28NOV	239-242		40'S			6	2	015	JC	WW	28NOV	CT	X		VTOL	BB
738 E	DS-131	28NOV	242-243		90'S			6	2	015	JC	WW	28NOV	CT	X		VTOL	BB
739 E	DS-132	28NOV	243-244		183'S			6	2	015	JC	WW	"	CT	X		VTOL	BB
740	E	28NOV		245	205'S 2'E			2	2	015	JC	WW	"	CT	X		VTOL	BB
741 E	DS-133	28NOV	244-245		205'N			6	2	015	JC	WW	"	CT	X		VTOL	BB
742 E	DS-134	28NOV	245-246		353'S			6	2	015	JC	WW	28NOV	CT	X		VTOL	WW
743 E	DS-135	28NOV	246-252		25'N			6	2	015	JC	WW	28NOV	CT	X		VTOL	WW
744	E	30NOV	274-275		45'S			6	3	015	JC	WW	28NOV	CT	X		VTOL	BB
745	E	30NOV	252-254		117'N			6	3	015	JC	WW	"	CT	X		VTOL	BB
746	E	30NOV	254-255		119'N			6	3	015	JC	WW	"	CT	X		VTOL	BB
747	E	30NOV	256-257		122'N			6	3	015	JC	WW	"	CT	X		VTOL	BB
748	E	30NOV	257-260		20'N			6	3	015	JC	WW	"	CT	X		VTOL	BB
749	E	30NOV	256-257		115'S			6	3	015	JC	WW	"	JC	X		VTOL	BB
750	F E	30NOV	264-265	257				2	2	015	JC	WW	"	JC	X		VTOL	BB
751	E	30NOV	257-265		8'N			2	2	015	JC	WW	"	JC	X		VTOL	BB
752	E	30NOV	249-248		8					015	JC	WW	"	JC	X		VTOL	BB
753	E	30NOV	248-254		8	N		3	2	015	JC	JS	03DEC	JC	X		VTOL	JS
754	E	30NOV	248-254		12	N		3	2	015	JC	JS	03DEC	JC	X		VTOL	JS

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
755	E	04 DEC	263-264	257	T		3	3		015	JC	JS	05DEC	EV	X		VTOL	RR
756	|	05DEC	262-263	257	T		3	2		015	JC	JS	05DEC	EV	X		VTOL	RR
757	|	05 DEC	261-262	257	T		2	2		015	JC	JS	05DEC	EV	X		VTOL	RR
758	|	05 DEC	261-260	257	T		3	3		015	JC	JS	05DEC	EV	X		VTOL	RR
759	|	03 DEC	259-260	257	T		3	2		015	JC	JS	05DEC	EV	X		VTOL	RR
760	|	03 DEC	258-259	257	T		3	2		015	JC	JS	05DEC	EV	X		VTOL	JS
761	|	05 DEC	257-277	292 283	258	T	13	3		015	JC	JS	05DEC	EV	X		VTOL	RR
762	|	03 DEC	256-276	257	T		9	2		015	JC	JS	05DEC	EV	X		VTOL	JS
763 E	DS139	05DEC	256-257	/	185		6	2		015	JC	JS	05DEC	EV	X		VTOL	RR
764 E	DS138	04 DEC	255-256	/	111	N	6	2		015	JC	JS	05DEC	EV	X		VTOL	RR
765	|	03 DEC	255-256	276	T		9	2		015	JC	JS	05DEC	EV	X		VTOL	JS
766	|	03 DEC	254-255	274	T		0	2		015	JC	JS	05DEC	EV	X		VTOL	JS
767 E	DS137	04 DEC	254-255	/	90	N	7	3		015	JC	JS	06 DEC	EV	X		VTOL	JS
768	|	04 DEC	249-250	254	T		7	2		015	JC	JS	06 DEC	EV	X		VTOL	JS
769	|	04 DEC	250-251	254	T		2	2		015	JC	JS	06 DEC	EV	X		VTOL	JS
770	|	04 DEC	251-252	254	T		2	2		015	JC	JS	06 DEC	EV	X		VTOL	JS
771	|	03 DEC	/	254	117	N-11W	5	4		015	JC	JS	03 DEC	JC	X		VTOL	JS
772	|	03 DEC	/	254	4	N3E	2	2		015	JC	JS	05DEC	EV	X		VTOL	RR
773	↓		253-254	273-274		T	8	2		015	JC	JS	05DEC	EV	X		VTOL	RR

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
774 E	DS136	03 DEC	253-254		8	N	6	2		015	JC	JS	05DEC	EV	X		VTDL	JS
775	E	04 DEC	252-253	254	T		2	2		015	JC	JS	05DEC	EV	X			JS
776		03 DEC	246-253	273	T		7	2		015	JC	JS	05DEC	EV	X			JS
777		03 DEC	245-246	272	T		8	2		015	JC	JS	05DEC	EV	X			JS
778		03 DEC	244-245	271	T		9	2		015	JC	JS	05DEC	EV	X			JS
779		05 DEC	291-292		53N		8	5		015	JC	JS	06DEC	CL	X		VTDL	JS
780		05 DEC	277-278		5	N	4	4		015	JC	JS	06DEC	CL	X			JS
781		05 DEC	282-277		26	S	18	3		015	JC	JS	06DEC	EV	X			JS
782		04 DEC	243-244	270	T		8	2		015	JC	JS	05DEC	EV	X			JS
783		04 DEC	242-243	269	T		8	2		015	JC	JS	05DEC	EV	X			JS
784		04 DEC	239-240	242-268	T		11	4		015	JC	JS	05DEC	EV	X			JS
785		04 DEC	240-241	268	5~~8~~	& T	10	4		015	JC	JS	05DEC	EV	X			JS
786		04 DEC	270-271		4~~3~~	S-55	3	2		015	JC	JS	05DEC	EV	X			JS
787		04 DEC	270-271		43	S	5	2		015	JC	JS	05DEC	EV	X			JS
788		05 DEC		282	19E, 6S			3	3	015	JC	JS	06DEC	CL	X			JS
789		05 DEC	283-284	258	T			3	2	015	JC	JS	05DEC	EV	X			JS
790		05 DEC	258-284		8	S		4	3	015	JC	JS	05DEC	EV	X			JS
791		05 DEC	258-284	286-291	T			5	3	015	JC	JS	05DEC	EV	X			JS
792	↓	05 DEC	287-291	286	T			3	3	015	JC	JS	05DEC	EV	X		↓	JS

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REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☒ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
793 E	DS141	05DEC	258-259	291	T		9	3		015	JC	JS	06DEC	EV	X		VTOL	BB
794	E	05DEC	258-259		7	W	2	2		015	JC	JS	06DEC	EV	X		VTOL	JS
795	↓	05DEC	287-288	291	T		2	2		015	JC	JS	06DEC	EV	X		↓	JS
796		05DEC	259-291		14	S	3	2		015	JC	JS	06DEC	EV	X			JS
797		05DEC	259-260	291	T		3	3		015	JC	JS	06DEC	EV	X			JS
798		05DEC	260-291	/	12	N	7	3		015	JC	JS	06DEC	EV	X			JS
799		05DEC	260-291	/	23	N	8	2		015	JC	JS	06DEC	CL	X			JS
800		05DEC	260-261	291	T		2	2		015	JC	JS	06DEC	EV	X			JS
801		05DEC	261-262	291	T		2	2		015	JC	JS	06DEC	EV	X		VTOL	BB
802		05DEC	297-299	/	39	N	8	5		015	JC	JS	06DEC	CL	X		VTOL	JS
803		05DEC	295-296	297	T		2	2		015	JC	JS	06DEC	EV	X		VTOL	BB
804		05DEC	295-296	293	T		12	6		015	JC	JS	06DEC	CL	X		VTOL	JS
805			265-266	257	T		2	2		015	JC	JS	06DEC	CL	X			BB
806	↓	06DEC	266-267	291	T		2	2		015	JC	JS	06DEC	CL	X			BB
807 E	DS143	06DEC	291-293	/	13	S	7	2		015	JC	JS	06DEC	CL	X			BB
808	E	05DEC	264-265	291	T		2	2		015	JC	JS	06DEC	CL	X			BB
809 E	DS140	05DEC	263-264	291	T		9	2		015	JC	JS	06DEC	CL	X			BB
810	E	05DEC	262-263	291	T		2	2		015	JC	JS	06DEC	CL	X			BB
811	E	06DEC	/	301	7S	4E	8	2		015	JC	JS	06DEC	CL	X			BB

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REVIEWED BY: _____

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
812	E	05DEC	301-302		6	E	8	4		015	JC	JS	06DEC	EV	X		VTDL	JS
813		05DEC	292-293	291	T		2	2		015	JC	JS	06DEC	EV	X			JS
814		05DEC	288-289	291-292	T		4	3		015	JC	JS	06DEC	EV	X			JS
815		05DEC	289-292		10	N	10	2		015	JC	JS	06DEC	EV	X			JS
816		05DEC	289-290	292	T		2	2		015	JC	JS	06DEC	EV	X			JS
817		06DEC	290-301		13	E	2	2		015	JC	JS	06DEC	EV	X			JS
818		06DEC	290-301		7	E	2	2		015	JC	JS	06DEC	EV	X			JS
819		06DEC	290-301	292	T		5	4		015	JC	JS	06DEC	EV	X			JS
820		06DEC	301-302		10	E	2	2		015	JC	JS	06DEC	EV	X			JS
821		06DEC	301-302	292,294	T		4	3		015	JC	JS	06DEC	EV	X			JS
822		05DEC	292-293	294	T		2	2		015	JC	JS	06DEC	EV	X			JS
823		06DEC	302-303	294	T		7	3		015	JC	JS	06DEC	EV	X			JS
824		06DEC		302	6S	7E	2	2		015	JC	JS	06DEC	EV	X			JS
825		06DEC	303-304	294	T		3	2		015	JC	JS	06DEC	EV	X			JS
826		06DEC	304-305	294,295	T		4	3		015	JC	JS	06DEC	EV	X			JS
827	E DS144	05DEC	294-295	293	T		9	2		015	JC	JS	06DEC	EV	X			JS
828	E	05DEC	298-299	297			9	2		015	JC	JS	06DEC	EV	X			JS
829	E	06DEC	295-297	305	T		2	2		015	JC	JS	06DEC	EV	X			JS
830	E	06DEC	305-306	297	T		2	2		015	JC	JS	06DEC	EV	X			JS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: _____

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
831	E	06 DEC	306-307	297	T		3	2		015	JC	JS	12/6/06	EV	X		V/OL	
832		06 DEC	307-308	297	T		2	2		015	JC	JS	DE 12/6/06	EV	X			
833		06 DEC	308-309	297	T	298	4	2		015	JC	JS		EV	X			
834		06 DEC	309-310	298	T		3	3		015	JC	JS		EV	X			
835		06 DEC	310-311	298	T		4	2		015	JC	JS		EV	X			
836		06 DEC	311-312	298	T		3	2		015	JC	JS		EV	X			
837		06 DEC	298-312		8N		2	2		015	JC	JS		EV	X			
838		06 DEC	298-299		5W		3	2		015	JC	JS		EV	X			
839		05 DEC	299-300	297	T		3	3		015	JC	JS		EV	X			
840		06 DEC	247-254	210-211	T		13	5		015	JC	JS		EV	X			
841		06 DEC	247-254	248	T		2	2		015	JC	JS		EV	X			
842		06 DEC	211-254		10E		3	2		015	JC	JS		EV	X			
843		06 DEC	211-212-254-255		T		4	3		015	JC	JS		EV	X			
844		06 DEC	212-213-255-256		T		4	3		015	JC	JS		EV	X			
845		06 DEC	213-214-256-257		T		4	3		015	JC	JS		EV	X			
846		06 DEC	256-257		8S		3	2		015	JC	JS		EV	X			
847		06 DEC	214-215-257-267		T		5	3		015	JC	JS		EV	X			
848		06 DEC	257-267	266	T		4	4		015	JC	JS		EV	X			
849	↓	06 DEC	265-266	291	T		2	2		015	JC	JS	↓	EV	X		↓	

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: _____

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☑ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
850	F	06DEC	265-291		22	S	2	2		015	JC	JS	06DEC	EV	X		AT	
851	↓	06DEC	215-216-267-291		T		6	2		015	JC	JS	"	"	X		"	
852	↓	06DEC	216-217-291-293		T		6	2		015	JC	JS	"	"	X		↓	
853																		
854																		
855																		
856																		
857																		
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859																		
860																		
861																		
862																		
863																		
864																		
865																		
866																		
867																		
868																		

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: _____

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
12-Apr	-	203-208	129	-	CAP 1 A	E	129	3	-	74200011	JC	CS	12-Apr	HO	P	VTOK	CS
12-Apr	202/203	-	120	-	CAP 1 B	E	18	3	-	74200011	JC	CS	12-Apr	HO	P	VTOK	CS
12-Apr	205/206	-	119	-	CAP 1 C	E	20	3	-	74200011	JC	CS	12-Apr	HO	P	VTOK	CS
12-Apr	205/206	-	126	-	CAP 1 D	E	6	3	-	74200011	JC	CS	12-Apr	HO	P	VTOK	CS
12-Apr	207/208	-	123	-	CAP 1 E	E	12	3	-	74200011	JC	CS	12-Apr	HO	P	VTOK	CS
12-Apr	208/209	-	125	-	CAP 1 F	E	9	3	-	74200011	JC	CS	12-Apr	HO	P	VTOK	CS
12-Apr	278/279/280TO281/282		0-115	-	CAP 2 A	F	115	3	-	75-28	RR	CS	14-Apr	EV	P	ATOK	CS
12-Apr	288/289	-	0-103	-	CAP 3 A	F	103	3	-	75-28	RR	CS	14-Apr	EV	P	ATOK	CS
14-Apr	-	60-66	135	-	CAP 4 A	E	154	3	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
14-Apr	59/60	-	96	-	CAP 4 B	E	78	3	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
14-Apr	61/62	-	118	-	CAP 4 C	E	34	6	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
14-Apr	-	64	132	5'W	CAP 4 D	E	6	3	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
14-Apr	71/72 TO 73/201		126	-	CAP 5 A	E	41	3	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
14-Apr	-	73	122	5'W	CAP 5 B	E	8	3	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
15-Apr	23/24 TO 20/26		34-101	-	CAP 6 A	E	67	4	-	74200011	JC	CS	15-Apr	RG	P	VTOK	CS
15-Apr	27/36	-	68	-	CAP 7 A	E	18	3	-	7420001	JC	CS	15-Apr	RG	P	VTOK	CS
15-Apr	27/28	-	77	-	CAP 7 B	E	15	3	-	7420001	JC	CS	15-Apr	RG	P	VTOK	CS
15-Apr	19/26/27	-	75	-	CAP 7 C	E	12	5	-	7420001	JC	CS	15-Apr	RG	P	VTOK	CS
15-Apr	19/28	-	110	-	CAP 7 D	E	6	3	-	7420001	JC	CS	15-Apr	RG	P	VTOK	CS
15-Apr	1/19	-	94	-	CAP 7 E	E	34	3	-	7420001	JC	CS	15-Apr	RG	P	VTOK	CS
18-Apr	301/302 TO 313		93		CAP 8 A	E	259	2	-	75-28	GGM	CS	18-Apr	EV	P	ATOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
19-Apr	232/233 TO 277/278		129	-	CAP 9 A	E	330	3	-	75-28	GGM	CS	19-Apr	EV	P	ATOK	CS
24-Apr	221/320 TO 221/327		154	-	CAP 10 A	F	154	3		75-28	GGM	CS	24-Apr	EV	P	ATOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE day/mo	LOCATION				REPAIR NO.AND CODE (1)		REPAIR TYPE (2)	SIZE			WELDER ID			NON-DESTRUCTIVE				
	SEAM	PANEL	DIST (ft)	OFFSET (ft)				LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
12-Apr	217-18/293-6	-	Tee	-	P	R- 858	E	9	5	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	218-19/296-97	-	Tee	-	P	R- 859	E	9	6	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	300/219-20-97	-	Tee	-	P	R- 860	E	9	6	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	220-21/300-20	-	Tee	-	P	R- 861	E	7	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	300/319/320	-	Tee	-	P	R- 862	E	4	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	299/300-18-19	-	Tee	-	P	R- 863	E	12	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
Apr 12 ~~6-Dec~~	322/323		136		P	R- 864	E	2	2	-	74-15	JC	CS	14-Apr	RG	P	VTOK	CS
12-Apr	299/317/318	-	Tee	-	P	R- 865	E	4	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	299/317/318	-	Tee	-	P	R- 866	E	4	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	299/315/316	-	Tee	-	P	R- 867	E	4	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	299/314/315	-	Tee	-	P	R- 868	E	3	5	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	313/314/315	-	Tee	-	P	R- 869	E	4	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	313/315	-	86	-	P	R- 870	E	4	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	84/285/28	-	Tee	-	P	R- 871	E	4	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	326/327	-	5	-	P	R- 872	E	1	1	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
12-Apr	326/327	-	10	-	P	R- 873	E	1	1	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
12-Apr	325/326	-	11	-	P	R- 874	E	3	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
12-Apr	319/320	-	4	-	P	R- 875	E	5	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	319/320	-	44	-	P	R- 876	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	318/319	-	52	-	P	R- 877	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	CAP-1 See Cap repair addendum				C	R- 878	-	-	-	-	74-11	GGM	CS	12-Apr	HO	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
12-Apr	312/313	-	5	-	P	R- 856	E	1	1	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	313/315	-	4	-	P	R- 857	E	4	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	CAP-2 See Cap repair addendum				P	R- 879	E	-	-	-	74-11	GGM	CS	14-Apr	EV	P	ATOK	CS
12-Apr	CAP-3 See Cap repair addendum				P	R- 880	E	-	-	-	74-11	GGM	CS	14-Apr	EV	P	ATOK	CS
12-Apr	289/290	-	4	-	P	R- 881	E	8	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	290/301	-	6	-	P	R- 882	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	301/302	-	4	-	P	R- 883	E	6	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	288/289	-	4	-	P	R- 884	E	8	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	288/289	-	72	-	P	R- 885	E	4	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	288/289	-	94	-	P	R- 886	E	12	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	289/290	-	103	-	P	R- 887	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	290/301	-	101	-	P	R- 888	E	9	4	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	298/299/312	-	Tee	-	P	R- 889	E	3	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	299/312-13-14	-	Tee	-	P	R- 890	E	8	6	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	CAP-4 See Cap repair addendum				P	R- 891	E	-	-	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	CAP-5 See Cap repair addendum				P	R- 892	E	-	-	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	284/285	-	18	-	P	R- 893	E	6	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	281/282	-	4	-	P	R- 894	E	7	5	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	282/CapS	-	9	-	P	R- 895	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	280/281/CapE	-	Tee	-	P	R- 896	E	4	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	279-80-82/cap	-	Tee	-	P	R- 897	E	5	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)		(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
14-Apr	278-79/CapE	-	Tee	-	P	R- 898	E	4	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	278-82/R781	-	Tee	-	P	R- 899	E	9	8	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	241/268	-	7	-	P	R- 900	E	3	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	270/271	-	6	-	P	R- 901	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	277/278	-	9	-	P	R- 902	E	4	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	278/279	-	6	-	P	R- 903	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	279/280	-	6	-	P	R- 904	E	2	2	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	70/71	-	126	-	P	R- 905	E	12	9	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	-	69	126	6'E	P	R- 906	E	9	3	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
12-Apr	-	219	1'fm End	5'E220	P	R- 907	E	1	1	-	74-11	GGM	CS	14-Apr	RG	P	VTOK	CS
14-Apr	52/53	-	140	-	P	R- 908	E	3	2	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
14-Apr	-	51	141	2'E	P	R- 909	E	3	2	-	74200011	JC	CS	14-Apr	RG	P	VTOK	CS
15-Apr	-	270	58	4'E	P	R- 910	E	2	2	-	74-11	GGM	CS	15-Apr	RG	P	VTOK	CS
15-Apr	CAP-6 See Cap repair addendum				P	R- 911	E	-	-	-	74200011	JC	CS	15-Apr	RG	P	VTOK	CS
15-Apr	CAP-7 See Cap repair addendum				P	R- 912	E	-	-	-	74200011	JC	CS	15-Apr	RG	P	VTOK	CS
15-Apr	19/20	-	97	-	P	R- 913	E	4	3	-	74200011	JC		15-Apr	RG	P	VTOK	CS
16-Apr	-	90	12	-	P	R- 914	E	23	3	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	88/89	-	12	-	P	R- 915	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	87/88	-	12	-	P	R- 916	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	86/87	-	12	-	P	R- 917	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	85/86	-	12	-	P	R- 918	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
16-Apr	84/85	-	12	-	P	R- 919	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	83/84	-	12	-	P	R- 920	E	3	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	82/83	-	12	-	P	R- 921	E	3	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	81/82	-	12	-	P	R- 922	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	80/81	-	12	-	P	R- 923	E	3	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	79/80	-	12	-	P	R- 924	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	78/79	-	12	-	P	R- 925	E	5	5	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	77/78	-	12	-	P	R- 926	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	76/77	-	12	-	P	R- 927	E	2	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	75/76	-	12	-	P	R- 928	E	3	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	74/75	-	12	-	P	R- 929	E	3	2	-	74-11	GGM	CS	16-Apr	RG	P	VTOK	CS
16-Apr	18/74	-	12	-	P	R- 930	E	2	5	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	-	83	12	8'N	DS147	R- 931	E	8	3	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	17/18	-	12	-	P	R- 932	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	16/17	-	12	-	P	R- 933	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	15/16	-	12	-	P	R- 934	E	3	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	-	15	12	6'N	DS146	R- 935	E	8	3	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	14/15	-	12	-	P	R- 936	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	13/14	-	12	-	P	R- 937	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	12/13	-	12	-	P	R- 938	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	11/12	-	12	-	P	R- 939	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
16-Apr	10/11	-	12	-	P	R- 940	E	2	2	-	74200011	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	9/10	-	12	-	P	R- 941	E	2	2	-	74200011	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	8/9	-	12	-	P	R- 942	E	2	2	-	74200011	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	-	7	12	-	P	R- 943	E	24	3	-	74200011	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	1/28	-	5	-	P	R- 944	E	34	3	-	74200011	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	C1/206	-	134	7	DS148	R- 945	E	6	2	-	74200011	JC	CS	16-Apr	RG	P	VTOK	CS
16-Apr	C4/60	-	137	9	DS149	R- 946	E	5	2	-	74200011	JC	CS	16-Apr	RG	P	VTOK	CS
17-Apr	290/301	-	84	-	DS150	R- 947	E	6	2	-	74-11	GGM	CS	17-Apr	RG	P	VTOK	CS
17-Apr	305/306	-	71	-	DS151	R- 948	E	6	2	-	74-11	GGM	CS	17-Apr	RG	P	VTOK	CS
17-Apr	309/310	-	93	-	DS152	R- 949	E	6	2	-	74-11	GGM	CS	17-Apr	RG	P	VTOK	CS
17-Apr	315/316	-	66	-	DS153	R- 950	E	6	2	-	74-11	GGM	CS	17-Apr	RG	P	VTOK	CS
17-Apr	320/321	-	94	-	DS154	R- 951	E	6	2	-	74-11	GGM	CS	17-Apr	RG	P	VTOK	CS
18-Apr	CAP-8 See Cap repair addendum				P	R- 952	E	-	-	-	7420001	JC	CS	18-Apr	RG	P	VTOK	CS
18-Apr	313/Cap-W	-	95	5'S	DS155	R- 953	E	12	2	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS
18-Apr	312/313	-	96	-	P	R- 954	E	3	2	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS
18-Apr	311/312	-	98	-	P	R- 955	E	6	7	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS
18-Apr	310/311	-	99	-	P	R- 956	E	6	6	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS
18-Apr	309/310	-	100	-	P	R- 957	E	6	7	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS
18-Apr	308/309	-	99	-	P	R- 958	E	3	2	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS
18-Apr	307/308	-	99	-	P	R- 959	E	3	3	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS
18-Apr	306/307	-	100	-	P	R- 960	E	3	3	-	74-11	GGM	CS	18-Apr	RG	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
18-Apr	306/307	-	100	-	P	R- 961	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
18-Apr	305/306	-	100	-	P	R- 962	E	3	3	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
18-Apr	-	305	101	-	P	R- 963	E	3	3	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
18-Apr	304/305	-	101	-	DS156	R- 964	E	8	3	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
18-Apr	303/304	-	101	-	P	R- 965	E	3	4	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
18-Apr	302/303	-	102	-	P	R- 966	E	2	2	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
18-Apr	-	302	102	-	P	R- 967	E	9	3	-	74-11	JC	CS	16-Apr	RG	P	VTOK	CS
21-Apr	-	136	34	11'E	P	R- 968	E	3	2	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	232/233	-	105	-	P	R- 969	E	5	2	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	233/Cap-S	-	104	5'W	DS-157	R- 970	E	5	2	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	233/234	-	105	-	P	R- 971	E	4	3	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	234/236	-	105	-	P	R- 972	E	4	4	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	236/237	-	106	-	P	R- 973	E	4	3	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	237/241	-	107	-	P	R- 974	E	4	5	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	241/268	-	108	-	P	R- 975	E	4	2	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	268/269	-	109	-	P	R- 976	E	5	5	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	269/270	-	111	-	P	R- 977	E	4	3	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	270/Cap-N	-	113	7'W	DS-158	R- 978	E	5	2	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	270/271	-	112	-	P	R- 979	E	4	2	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	271/272	-	112	-	P	R- 980	E	4	3	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS
21-Apr	272/273	-	113	-	P	R- 981	E	4	4	-	74-11	GGM	CS	21-Apr	NG	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
21-Apr	273/274	-	114	-	P	R- 982	E	3	3	-	74-11	JC	CS	21-Apr	RG	P	VTOK	CS
21-Apr	274/275	-	114	-	P	R- 983	E	3	3	-	74-11	JC	CS	21-Apr	RG	P	VTOK	CS
21-Apr	275/276	-	114	-	P	R- 984	E	4	4	-	74-11	JC	CS	21-Apr	RG	P	VTOK	CS
21-Apr	276/277	-	109	-	P	R- 985	E	4	5	-	74-11	JC	CS	21-Apr	RG	P	VTOK	CS
21-Apr	277/278	-	105	-	P	R- 986	E	2	11	-	74-11	JC	CS	21-Apr	RG	P	VTOK	CS
21-Apr	CAP-9 See Cap repair addendum				P	R- 987	E	-	-	-	7420001	JC	CS	21-Apr	EV	P	ATOK	CS
22-Apr	146/152	-	115	-	P	R- 988	E	4	3	-	74-11	GGM	CS	22-Apr	EV	P	VTOK	CS
22-Apr	-	144-146	116	-	P	R- 989	E	66	2	-	74-11	GGM	CS	22-Apr	EV	P	VTOK	CS
23-Apr	-	276-277	135	-	P	R- 990	E	40	2	-	74-11	GGM	CS	24-Apr	EV	P	VTOK	CS
24-Apr	290/301	-	98	-	P	R- 991	E	6	6	-	74-11	GGM	CS	24-Apr	EV	P	VTOK	CS
24-Apr	-	301	98	-	P	R- 992	E	22	2	-	74-11	GGM	CS	24-Apr	EV	P	VTOK	CS
24-Apr	301/302	-	96	-	P	R- 993	E	7	5	-	74-11	GGM	CS	24-Apr	EV	P	VTOK	CS
24-Apr	-	50	4	11'W	P	R- 994	E	3	3	-	74-11	GGM	CS	24-Apr	EV	P	VTOK	CS
24-Apr	CAP-10 See Cap repair addendum				P	R- 995	F	-	-	-	75-28	GGM	CS	24-Apr	EV	P	ATOK	CS
24-Apr	320/321	-	128	-	P	R- 996	E	19	6	-	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	321/322/324	-	136	-	P	R- 997	E	8	6	-	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	323/324	-	145	-	P	R- 998	E	6	3	-	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	322/324	-	136	5'S	P	R- 999	E	2	2	-	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	-	322	109	5'S	P	R- 1000	E	2	3	-	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	322/323/324	-	136	-	P	R- 1001	E	4	4	-	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	323/221	-	151	7'S	P	R- 1002	E	4	2	-	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
24-Apr	323/325	-	151	-	P R- 1003	E	1	1	CS	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	325/221	-	158	8'S	P R- 1004	E	4	2	CS	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	325/326	-	161	-	P R- 1005	E	2	2	CS	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	326/221	-	170	11'S	P R- 1006	E	4	2	CS	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	326/327	-	170	-	P R- 1007	E	3	2	CS	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	327/221	-	170	12'N	P R- 1008	E	4	3	CS	74-11	GGM	CS	24-Apr	RB	P	VTOK	CS
24-Apr	327/221	-	172	5'N	DS159 R- 1009	E	5	3	CS	74-11	JC	CS	24-Apr	RB	P	VTOK	CS
					1010												
					1011												
					1012												
					1013												
					1014												
					1015												
					1016												
					1017												
					1018												
					1019												
					1020												
					1021												
					1022												
					1023												

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☑ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1010	E P	5/29/08	110/111		4'S		2	2		74-11	H.O	BB	5/29	R.G.	✓		VTOL	BB
1011	E P	6/4/08	97/96	328			19	2		74-11	J.C.	BB	6/4	R.G.	✓			BB
1012	E P	"	126/128	328			15	3		74-11	J.C.	BB	"	R.G.	✓			BB
1013	E P	"		328		11'W 4'N	3	2		74-11	J.C.	BB	"	R.G.	✓			BB
1014	E P	"	97/98	328			2	2		74-11	J.C.	BB	"	R.G.	✓			BB
1015	DS	"	126/328		36'E		6	2		74-11	J.C.	BB	"	R.G.	✓			BB
1016	E P	"	98/99	328			2	2		74-11	J.C.	BB	"	R.G.	✓			BB
1017	E P	"	126/100	328			9	2		74-11	J.C.	BB	"	R.G.	✓			BB
1018	E P	"	99/100	328			2	2		74-11	J.C.	BB	"	R.G.	✓			BB
1019	E P	"	100/101	328			2	2		74-11	J.C.	BB	"	R.G.	✓			BB
1020	E P	"	100	328	5'E		3	3		74-11	J.C.	BB	"	R.G.	✓			BB
1021	E P	"	100	328			6	3		74-11	J.C.	BB	"	R.G.	✓			BB
1022	E P	"		328	3'N		7	3		742-11	J.C.	BB	"	R.G.	✓			BB
1023	E P	"	101	328	7'N		2	2		742-11	J.C.	BB	"	R.G.	✓			BB
1024	E P	"	101/328	[illegible]	2'W		6	2		"	"	BB	6/9	"	✓			BB
1025	E P	6/9		328		6E, 11S	2	2		"	"	BB	"	"	✓			BB
1026	E P	"		328		10E, 11S	12	5		"	"	BB	"	"	✓			BB
1027	E P	6/13	221/229				3	3		"	"	BB	6/14	"	✓			BB
1028	E P	"	221/229		36'S		3	2		"	"	BB	"	"	✓		↓	BB

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☑ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1029	E P	6/13/08	221/229		111'S		3	2		742-11	SL		6/14/08	RG	✓		VTDK	
1030	E P	"	221/229		119'S		2	3		"	"		"	"	✓			
1031	DS	"	221/229	DS-161	197'S		2	8		"	"		"	"	✓			
1032 P	E	"	221/229		248'S		2	2		"	"		"	"	✓			
1033 P	E	"	221/229		288'S		6	8		"	"		"	"	✓			
1034 P	E	"	329/327	221			3	12		"	"		"	"	✓			
1035 P	E	"	329/331	327			3	5		"	"		"	"	✓			
1036 P	E	"	329/331		19'N		2	2		"	"		"	"	✓			
1037	E·DS	"	329/331	DS-162	10'S		2	7		"	"		"	"	✓			
1038 P	E	"	330/331	329			2	4		"	"		"	"	✓			
1039 P	E	"	329/330		10'N		2	2		"	"		"	"	✓			
1040 P	E	"	329/330		20'N		3	8		"	"		"	"	✓			
1041 P	E	"	329/330		105'S		2	3		"	"		"	"	✓			
1042 P	E	"	330/332		353		2	2		"	"		"	"	✓			
1043 P	E	"	333/334	330	~~330~~ 338		2	4		"	"		"	"	✓			
1044 P	E	"	330/334		35'N		4	12		"	"		"	"	✓			
1045 P	E	"	330/331	334			2	3		"	"		"	"	✓			
1046	E·DS	"	330/331	[illegible]	9'W	DS-163	2	6		"	"		"	"	✓			
1047 P	E	"	331/334		9'N		2	3		"	"		"	"	✓		↓	

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☑ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1048 P	E	6/13/08	331/334	327			2	2		742-11	JC	BR	6/14/08	RG	✓		VTOL	
1049 P	E	"		334		3'W 2'N	2	2		742-11	JC	BR	"	"	✓			
1050 P	E	"	334/337	327			3	5		742-11	"	BR	"	"	✓			
1051 P	E	"	334/337		10'W		2	6		"	"	BR	"	"	✓			
1052 P	E	"		334		8'N 3'W	2	2		"	"	BR	"	"	✓			
1053 P	E	"		334		15'N 3'W	2	2		"	"	BR	"	"	✓			
1054 P	E	"	336/337	334			2	2		"	"	BR	"	"	✓			
1055 P	E	5/12/08	335/336	334			2	4		"	"	BR	"	"	✓			
1056 P	E	6/13/08	334/335		76'N		2	8		"	"	BR	"	"	✓			
1057 P	E	"	334/335		37'S		2	2		"	"	BR	"	"	✓			
1058 P	E	"	333/334	335			2	5		"	"	BR	"	"	✓			
1059 P	E	"	332/333	335			2	2		"	"	BR	"	"	✓			
1060 P	E	"	332/335		164'S		4	5		"	"	BR	"	"	✓			
1061 P	E	"	335/338		289'S		4	10		"	"	BR	"	"	✓			
1062 P	E	"	335/336	338			2	2		"	"	BR	"	"	✓			
1063 P	E	"	335/336		16'W		2	2		"	"	BR	"	"	✓			
1064 P	E	"	338/339	336			2	4		"	"	BR	"	"	✓			
1065 DS	E-DS	"	336/339		33'S	DS-165'	2	4		"	"	BR	"	"	✓			
1066 P	E	"	336/339	339			2	2		"	"	BR	"	"	✓			

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☑ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1067 P	E	6/12/08	338/339	343			2	2		Ha-11	JL	BBS	6/14/08	R.G.	✓		VTOK	BS
1068 P	E	"		338		9W 2N	2	2		"	"	BBS	"	"	✓			BS
1069 P	E	"		338		8E 2N	2	2		"	"	BBS	"	"	✓			BS
1070 P	E	"		338		9W 9N	2	2		"	"	BBS	"	"	✓			BS
1071 P	E	"		338		9W 15N	2	2		"	"	BBS	"	"	✓			BS
1072 P	E	6/12/08	342/343	339			2	2		"	"	BBS	"	"	✓			BS
1073 P	E	6/13/08	341/342	338			2	2		"	"	BBS	"	"	✓			BS
1074 P	E	"	338/341		25N		2	3		"	"	BBS	"	"	✓			BS
1075 P	E-DS	"	340/341	338		DS-166	2	11		"	"	BBS	"	"	✓			BS
1076 P	E	"	344/345	342			3	2		"	"	BBS	"	"	✓			BS
1077 P	E	"	344/345				2	2		"	"	BBS	"	"	✓			BS
1078 P	E	"	344/345	347			2	2		"	"	BBS	"	"	✓			BS
1079 P	E	"	341/342	344			2	2		"	"	BBS	"	"	✓			BS
1080 P	E	"	346/347	344			3	2		"	"	BBS	"	"	✓			BS
1081 P	E	"	346/347	348			2	2		"	"	BBS	"	"	✓			BS
1082 P	E	"	344/346		31N		6	3		"	"	BBS	"	"	✓			BS
1083 P	E	"	340/348	344			3	2		"	"	BBS	"	"	✓			BS
1084 P	E	"	340/344		107S		3	2		"	"	BBS	"	"	✓			BS
1085 P	E	"		340	109S		2	2		"	"	BBS	"	"	✓		↓	BS

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☑ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1086 P	E	6/13/08	340/344		83's		3	2		742-11	JC	RS	6/14/08	RG	/		VTOK	RS
1087 P	E	"	346/349	355	8'S		4b	3		"	"	RS	"	"	/			RS
1088 P	E	"	346/349		12's		4	4		"	"	RS	"	"	/			RS
1089 P	E	"	340/344				2	2		"	"	RS	"	"	/			RS
1090 P	E	"	340/344				2	2		"	"	RS	"	"	/			RS
1091 P	E	6/14/08	353/354				8b	8b		"	RR	RS	"	"	/			RS
1092 P	E	"	354/355				11	8		"	"	RS	"	"	/			RS
1093 P	E	6/13/08	355/356	346			2	2		"	JC	RS	"	"	/			RS
1094 P	E	"	349/350	355			3	2		"	"	RS	"	"	/			RS
1095 P	E-DS	"	349/350		9'N	DS-1685	6	2		"	"	RS	"	"	/			RS
1096 P	E	"	350/351	355			2	2		"	"	RS	"	"	/			RS
1097 P	E	"	351/352	355			2	2		"	"	RS	"	"	/			RS
1098 P	E	"	352/353	355			2	2		"	"	RS	"	"	/			RS
1098 P	E	"	353/355				2	2		"	"	RS	"	"	/			RS
1100 P	E	"	353/354	355			3	2		"	"	RS	"	"	/			RS
1101 P	E	6/14/08	356/357		2's		2	2		"	"	RS	"	"	/			RS
1102 P	E	"	357/358				14	9		"	"	RS	"	"	/			RS
1103 P	E	"	360/361		2'W		2	2		"	"	RS	"	"	/			RS
1104 P	E	"	358/359	357			2	2		"	"	RS	"	"	/		↓	RS

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ☑ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1105 P	E	6/14/08	359/360	357			3	2		742-11	RR	BS	6/14/08	RG	✓		VTOK	BS
1106 P	E	"	360/361	357			3	2		742-11	RR	BS	"	"	✓			BS
1107 P	E	"	361/362	357			2	2		"	"	BS	"	"	✓			BS
1108 P	E	"	362/365	357			3	2		"	"	BS	"	RG	✓			BS
1109 P	E	"	363/364	357			2	2		"	"	BS	"	"	✓			BS
1110 P	E DS-167	"	346/349	357	28'N	DS-167	6	2		"	"	BS	"	"	✓			BS
1111 P	E DS-169	"	355/356		54'N	DS-169	6	2		"	"	BS	"	"	✓			BS
1112 P	E DS-170	"	356/357		12'N	DS-170	6	2		"	"	BS	"	"	✓			BS
1113 P	E	"	362/363		7'W	DS-171	12	2		"	"	BS	"	"	✓			BS
1114 P	E	"	352/353		12'S		3	2		"	JC	BS	"	"	✓			BS
1115 P	E	"	370/373		6'W	DS-172	6	2		"	"	BS	"	"	✓			BS
1116 P	E	"	345/369	348/370	6'N	DS-173	13	2		"	"	BS	"	"	✓			BS
1117 P	E	"	357/364		18'N		2	2		"	"	BS	"	"	✓			BS
1118 P	E	"	364/365	348			2	2		"	"	BS	"	"	✓			BS
1119 P	E	"		348	8'N 4'W		3	2		"	"	BS	"	"	✓			BS
1120 P	E	"	348/357	346			11	2		"	"	BS	"	"	✓			BS
1121 P	E	"	356/357	346			6	3		"	"	BS	"	"	✓		↓	BS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
28-Apr	1/2	-	11	-	DP1	R- 1	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	1/2	-	540	-	P	R- 2	E	16	3	-	74200011	JC	CS	28-Apr	RR	P	VTOK	CS
28-Apr	2/3	-	129	-	DP2	R- 3	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	3/4	-	134	-	P	R- 4	E	2	2	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	3/4	-	196	-	DP3	R- 5	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	4/5	-	296	-	DP4	R- 6	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	4/5	-	110	-	P	R- 7	E	3	2	-	74200011	JC	CS	28-Apr	RR	P	VTOK	CS
28-Apr	5/6	-	401	-	DP5	R- 8	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	6/7	-	114	-	P	R- 9	E	4	2	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	6/7	-	400	-	P	R- 10	E	2	2	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	6/7	-	12	-	DP7	R- 11	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	6/7	-	495	-	DP6	R- 12	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	7/8	-	8	-	P	R- 13	E	3	2	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	7/8	-	400	-	DP8	R- 14	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	7/8	-	515	-	P	R- 15	E	2	2	-	74200011	JC	CS	28-Apr	RR	P	VTOK	CS
28-Apr	8/9	-	306	-	DP9	R- 16	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	9/10	-	205	-	DP10	R- 17	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	10/11	-	123	-	DP11	R- 18	E	6	3	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	10/11	-	11	-	P	R- 19	E	1	1	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	11/12	-	12	-	P	R- 20	E	1	1	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS
28-Apr	11/12	-	93	-	P	R- 21	E	3	2	-	74200011	JC	CS	29-Apr	MG	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
29-Apr	11/12	-	212	-	DP-12 R- 22	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	11/12	-	526	-	DP-13 R- 23	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	12/13	-	443	-	DP-14 R- 24	E	9	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
28-Apr	13/14	-	354	-	DP-15 R- 25	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
28-Apr	14/15	-	101	-	P R- 26	E	2	2	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	14/15	-	248	-	DP-16 R- 27	E	8	4	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	15/16	-	6	-	P R- 28	E	12	21	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
28-Apr	15/16	-	118	-	P R- 29	E	8	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
28-Apr	15/16	-	148	-	DP-17 R- 30	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	16/17	-	39	-	P R- 31	E	2	2	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	16/17	-	258	-	DP-18 R- 32	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
28-Apr	17/18	-	115	-	P R- 33	E	2	2	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	17/18	-	354	-	DP-19 R- 34	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	18/19	-	451	-	DP-20 R- 35	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	19/20	-	45	-	P R- 36	E	9	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	19/20	-	121	-	P R- 37	E	10	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	19/20	-	526	-	DP-21 R- 38	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	19/20	-	10	-	DP-22 R- 39	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	20/21	-	445	-	DP-23 R- 40	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	20/21	-	144	-	P R- 41	E	2	2	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	21/22	-	351	-	DP-24 R- 42	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
29-Apr	22/23	-	152	-	P R- 43	E	2	2	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	22/23	-	257	-	DP-25 R- 44	E	6	3	-	74200011	JC	CS	29-Apr	MGM	P	VTOK	CS
29-Apr	23/24	-	4	-	P R- 45	E	5	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
29-Apr	23/24	-	38	-	P R- 46	E	4	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
29-Apr	23/24	-	129	-	DP26 R- 47	E	6	3	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
5-May	23/24/125/127	-	548	-	DP27 R- 48	E	9	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
29-Apr	24/25	-	138	-	P R- 49	E	2	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
5-May	24/25/123/125	-	548	-	DP28 R- 50	E	8	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
29-Apr	25/26	-	126	-	P R- 51	E	2	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
5-May	25/26/121/123	-	546	-	DP29 R- 52	E	6	3	-	74-11	GGM	CS	CAPPED BY R-81				CS
5-May	26/27/119/121	-	548	-	DP30 R- 53	E	8	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	27/28/117/118	-	548	-	DP31 R- 54	E	18	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	28/29/115/117	-	548	-	DP32 R- 55	E	9	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
29-Apr	29/30	-	13	-	P R- 56	E	4	3	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
3-May	29/30113/115	-	549	-	DP33 R- 57	E	10	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
29-Apr	30/31	-	550	-	DP34 R- 58	E	8	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
29-Apr	30/31	-	8	-	DP35 R- 59	E	6	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
29-Apr	31/32	-	100	-	P R- 60	E	3	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
29-Apr	31/32	-	117	-	P R- 61	E	3	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
29-Apr	31/31	-	137	-	P R- 62	E	2	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
3-May	31/32	-	550	-	DP36 R- 63	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
29-Apr	32/33	-	122	-	P R- 64	E	2	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
3-May	32/33/107/109	-	550	-	DS37 R- 65	E	7	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	33/34/105/106	-	550	-	DS38 R- 66	E	18	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	34/35/103/105	-	550	-	DS39 R- 67	E	10	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	35/36/101/103	-	551	-	DS40 R- 68	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
30-Apr	30/31	-	143	-	P R- 69	E	2	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
3-May	36/37/99/101	-	550	-	DS41 R- 70	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	37/38/97/99	-	545	-	DS42 R- 71	E	31	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	38/39/96/97	-	549	-	DS43 R- 72	E	8	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	39/40/95/96	-	550	-	DS44 R- 73	E	5	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	40/41/93/95	-	551	-	DS45 R- 74	E	8	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
30-Apr	41/42/91/93	-	546	-	DP46 R- 75	E	9	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	42/43/89/90	-	550	-	DP47 R- 76	E	10	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	43/44/87/89	-	551	-	DP48 R- 77	E	9	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
29-Apr	37/38	-	70	-	P R- 78	E	2	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
29-Apr	37/38	-	194	-	P R- 79	E	3	2	-	74200011	JC	CS	30-Apr	MGM	P	VTOK	CS
30-Apr	42/43	-	139	-	P R- 80	E	5	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
5-May	25/26	-	540	-	C R- 81	E	21	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	25/26	-	534	-	DP29A R- 82	E	6	2	-	74-11	GGM	CS	CAPPED BY R-81				CS
30-Apr	20/21	-	10	-	DP29B R- 83	E	6	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
30-Apr	43/44	-	6	-	DP49 R- 84	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
30-Apr	43/44	-	317	-	P R- 85	E	3	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
30-Apr	43/44	-	379	-	P R- 86	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
30-Apr	44/45	-	5	-	P R- 87	E	5	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	44/45	-	143	-	DP50 R- 88	E	6	2	-	74200011	JC	CS	1-May	HO	P	VTOK	CS
30-Apr	45/46	-	119	-	P R- 89	E	3	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	45/46	-	197	-	DP51 R- 90	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	46/47	-	248	-	DP52 R- 91	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	47/48	-	126	-	P R- 92	E	3	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	47/48	-	130	-	P R- 93	E	4	1	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	47/48	-	170	-	P R- 94	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	47/48	-	230	-	P R- 95	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	47/48	-	298	-	DP53 R- 96	E	6	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	47/48	-	310	-	P R- 97	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	48/49	-	351	-	DP54 R- 98	E	6	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	49/50	-	396	-	DP55 R- 99	E	6	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	50/51	-	443	-	DP56 R- 100	E	6	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
30-Apr	48/49	-	346	-	P R- 101	E	3	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	51/52	-	491	-	DP57 R- 102	E	6	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	52/53/69/71	-	547	-	DP58 R- 103	E	7	3	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
1-May	51/52	-	269	-	P R- 104	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	52/53	-	223	-	P R- 105	E	4	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
1-May	53/54	-	151	-	P	R- 106	E	3	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	54/55	-	154	-	P	R- 107	E	3	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	56/57/58	-	189	-	P	R- 108	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	57/58/59/60	-	77	-	P	R- 109	E	5	4	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	-	60	95	12'W	P	R- 110	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	55/56	-	471	-	P	R- 111	E	11	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	58/60/61/62	-	226	-	P	R- 112	E	8	3	-	74200011	JC	CS	3-May	HO	P	VTOK	CS
1-May	56/58/62/63	-	414	-	P	R- 113	E	2	4	-	74200011	JC	CS	3-May	HO	P	VTOK	CS
1-May	55/56/63/65	-	544	-	P	R- 114	E	8	3	-	74200011	JC	CS	3-May	HO	P	VTOK	CS
1-May	62/63/64	-	31	-	P	R- 115	E	2	2	-	74200011	JC	CS	3-May	HO	P	VTOK	CS
1-May	63/64/65	-	30	-	P	R- 116	E	2	2	-	74200011	JC	CS	3-May	HO	P	VTOK	CS
30-Apr	-	39	545	18'W	P	R- 117	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
30-Apr	-	40	548	12'W	P	R- 118	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
30-Apr	-	40	549	17'W	P	R- 119	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
30-Apr	-	41	544	16'W	P	R- 120	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
30-Apr	-	41	543	1'W	P	R- 121	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
30-Apr	-	42	546	7'W	P	R- 122	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
30-Apr	-	42	539	7'W	P	R- 123	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
30-Apr	-	43	549	16'W	P	R- 124	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
1-May	53/54	-	5	-	P	R- 125	E	6	3	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	53/54	-	516	-	DP59	R- 126	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
2-May	53/54	-	137	-	DP60	R- 127	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	54/55	-	133	-	DP61	R- 128	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	55/56	-	91		DP62	R- 129	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	56/57	-	10	-	DP63	R- 130	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	58/60	-	124	-	DP64	R- 131	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	56/63	-	8'W	-	DP65	R- 132	E	6	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	61/62	-	493	-	DP66	R- 133	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	62/64	-	332	-	DP67	R- 134	E	6	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
2-May	-	58	91	11'W	P	R- 135	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	53/54	-	403	-	P	R- 136	E	2	2	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
1-May	-	53	445	6'W	P	R- 137	E	1	1	-	74200011	JC	CS	2-May	HO	P	VTOK	CS
5-May	33/34/105/107	-	Tee	-	DP38	R- 138	E	18	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	33/34	-	538	-	DP38A	R- 139	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	29/30	-	10	-	DP38B	R- 140	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	54/55/65/67	-	546	-	P	R- 141	E	3	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
2-May	53/54/67/69	-	547	-	P	R- 142	E	3	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
5-May	119/121	-	78	-	P	R- 143	E	2	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	51/52/71/73	-	547	-	P	R- 144	E	4	3	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
2-May	50/51/73/75	-	547	-	P	R- 145	E	2	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
2-May	49/50/75/77	-	547	-	P	R- 146	E	2	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
2-May	48/49/77/79	-	548	-	P	R- 147	E	3	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill

LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03

DESCRIPTION Cell 4A YEAR: 2008

PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
2-May	47/48/79/81	-	546	-	P	R- 148	E	2	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
2-May	46/47/81/83	-	545	-	P	R- 149	E	3	2	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
2-May	-	47	543	13'W	P	R- 150	E	1	1	-	74-11	GGM	CS	3-May	EV	P	VTOK	CS
2-May	45/46/83/85	-	545	-	P	R- 151	E	5	2	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	45/46	-	538	-	P	R- 152	E	1	1	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	45/46	-	532	-	P	R- 153	E	1	1	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	45/46	-	526	-	P	R- 154	E	1	1	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	45/46	-	520	-	P	R- 155	E	1	1	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	45/46	-	514	-	P	R- 156	E	1	1	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	45/85	-	548	-	P	R- 157	E	2	2	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	44/45/85/87	-	548	-	P	R- 158	E	3	3	-	74-11	GGM	CS	2-May	HO	P	VTOK	CS
2-May	41/42/91/93	-	Tee	-	P	R- 159	E	3	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	64/65/66	-	Tee	-	P	R- 160	E	3	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	64/66	-	122	-	DP68	R- 161	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	66/68	-	122	-	DP69	R- 162	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	68/70	-	175	-	DP70	R- 163	E	6	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	70/72	-	431	-	DP71	R- 164	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	72/74	-	503	-	DP72	R- 165	E	5	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	74/76	-	408	-	DP73	R- 166	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	76/78	-	58	-	DP74	R- 167	E	7	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
2-May	78/79/80	-	247	-	DP75	R- 168	E	8	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
3-May	79/80	-	151	-	DP76 R- 169	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	81/83	-	30	-	DP77 R- 170	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	83/85	-	120	-	DP78 R- 171	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	85/87	-	297	-	DP79 R- 172	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	88/89	-	375	-	DP80 R- 173	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	90/92	-	30	-	DP81 R- 174	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	65/66/67	-	65	-	P R- 175	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	66/67/68	-	93	-	P R- 176	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	67/68/69	-	93	-	P R- 177	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	68/69/70	-	119	-	P R- 178	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	69/70/71	-	120	-	P R- 179	E	3	3	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	69/71	-	105	-	P R- 180	E	3	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	70/71/72	-	145	-	P R- 181	E	2	3	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	71/72/73	-	145	-	P R- 182	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	72/73/74	-	170	-	P R- 183	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	73/74/75	-	169	-	P R- 184	E	9	3	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	74/75/76	-	194	-	P R- 185	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	75/76/77	-	194	-	P R- 186	E	2	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	74/76	-	229	-	P R- 187	E	4	2	-	74200011	JC	CS	3-May	EV	P	VTOK	CS
2-May	76/77/78	-	221	-	P R- 188	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	77/78/79	-	221	-	P R- 189	E	3	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
2-May	80/81/82	-	271	-	P	R- 190	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	79/80/81	-	247	-	P	R- 191	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	81/82/83	-	271	-	P	R- 192	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	82/83/84	-	298	-	P	R- 193	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	83/84/85	-	298	-	P	R- 194	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	84/85/86	-	325	-	P	R- 195	E	3	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	68/70	-	464	-	P	R- 196	E	5	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
2-May	80/82	-	158	-	P	R- 197	E	4	2		7411	GGM	CS	6-May	HO	P	VTOK	CS
2-May	73/75	-	66	-	P	R- 198	E	4	2		7411	GGM	CS	6-May	HO	P	VTOK	CS
2-May	85/86/87	-	326	-	P	R- 199	E	5	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	86/87/88	-	354	-	P	R- 200	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	87/88/89	-	354	-	P	R- 201	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	88/89/90	-	384	-	P	R- 202	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	89/90/91	-	384	-	P	R- 203	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	-	90	389	-	P	R- 204	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	90/91/92	-	409	-	P	R- 205	E	2	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	91/92/93	-	409	-	P	R- 206	E	3	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	92/93/94	-	438	-	P	R- 207	E	3	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	93/94/95	-	438	-	P	R- 208	E	2	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	92/94	-	516	-	DP82	R- 209	E	12	3		74200011	JC	CS	10-May	AG	P	VTOK	CS
3-May	93/95	-	393	-	DP83	R- 210	E	6	2		74200011	JC	CS	6-May	HO	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR		SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	NO.AND CODE (1)	REPAIR TYPE (2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
3-May	95/96	-	263	-	DP84 R- 211	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	96/98	-	148	-	DP85 R- 212	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	98/99	-	10	-	DP86 R- 213	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	40/95	-	9'W	-	DP87 R- 214	E	7	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	100/101/102	-	18'W	-	DP88 R- 215	E	7	4	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	100/102	-	108	-	DP89 R- 216	E	6	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
6-May	102/104	-	297	-	DP90 R- 217	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
6-May	104/106	-	184	-	DP91 R- 218	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
6-May	106/108	-	48	-	DP92 R- 219	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
6-May	107/109	-	63	-	DP93 R- 220	E	6	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	110/112	-	54	-	DP94 R- 221	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	112/114	-	139	-	DP95 R- 222	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	114/116	-	254	-	DP96 R- 223	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	-	31	550	15'W	P R- 224	E	2	2	-	75-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	-	29	551	12'W	P R- 225	E	2	2	-	75-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	-	29	551	6'W	P R- 226	E	2	2	-	75-11	GGM	CS	6-May	HO	P	VTOK	CS
3-May	111/112/113	-	Tee	-	P R- 227	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	112/113/114	-	Tee	-	P R- 228	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	113/114/115	-	Tee	-	P R- 229	E	4	4	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	-	114	4'S	7'W	P R- 230	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	114/115/116	-	Tee	-	P R- 231	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
3-May	115/116/117	-	Tee	-	P	R- 232	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	116/117/118	-	Tee	-	P	R- 233	E	4	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	97/98/99/100	-	Tee	-	P	R- 234	E	39	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	97/99	-	20	-	DP86A	R- 235	E	7	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	98/100	-	54	-	DP86B	R- 236	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	96/97/98	-	Tee	-	P	R- 237	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	99/100/101	-	Tee	-	P	R- 238	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	101/102/103	-	Tee	-	P	R- 239	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	102/103/104	-	Tee	-	P	R- 240	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	103/104/105	-	Tee	-	P	R- 241	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	104/105/106	-	Tee	-	P	R- 242	E	8	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	105/106/107	-	Tee	-	P	R- 243	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	106/107/108	-	Tee	-	P	R- 244	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	107/108/109	-	Tee	-	P	R- 245	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	108/109/110	-	Tee	-	P	R- 246	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	109/110/111	-	Tee	-	P	R- 247	E	3	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	110/111/112	-	Tee	-	P	R- 248	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
3-May	-	117	1	12'W	P	R- 249	E	1	1	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
6-May	116/118	-	395	-	DP97	R- 250	E	6	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	117/119	-	204	-	DP98	R- 251	E	7	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	27/119	-	19'W	-	DP99	R- 252	E	6	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
6-May	119/121	-	25	-	DP100 R- 253	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	121/123	-	80	-	DP101 R- 254	E	7	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	123/125	-	138	-	DP102 R- 255	E	7	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
6-May	125/127	-	191	-	DP103 R- 256	E	6	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
6-May	127/129	-	243	-	DP104 R- 257	E	7	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	129/131	-	295	-	DP105 R- 258	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	131/133	-	350	-	DP106 R- 259	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	133/135	-	402	-	DP107 R- 260	E	6	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	136/137	-	6	-	DP108 R- 261	E	13	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	138/140	-	21	-	DP109 R- 262	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
5-May	-	26	546	13'W	P R- 263	E	2	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	-	24	548	15'W	P R- 264	E	2	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	22/23/12/129	-	551	-	P R- 265	E	5	4	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	21/22/129/131	-	553	-	P R- 266	E	4	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	20/21/131/133	-	552	-	P R- 267	E	3	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	-	20	551	-	P R- 268	E	2	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	19/20/133/135	-	551	-	P R- 269	E	3	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	18/19/135/137	-	551	-	P R- 270	E	4	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	17/18/137/139	-	551	-	P R- 271	E	4	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	16/17/139/141	-	552	-	P R- 272	E	4	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	15/16/141/143	-	550	-	P R- 273	E	4	3	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
5-May	141/143	-	19	-	P R- 274	E	3	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
5-May	117/119	-	178	-	P R- 275	E	2	2	-	74-11	GGM	CS	6-May	HO	P	VTOK	CS
6-May	117/118/119	-	Tee	-	P R- 276	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	118/119/1120	-	Tee	-	P R- 277	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	119/120/121	-	Tee	-	P R- 278	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	120/121/122	-	Tee	-	P R- 279	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	121/122/123	-	Tee	-	P R- 280	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	122/123/124	-	Tee	-	P R- 281	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	123/124/125	-	Tee	-	P R- 282	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	124/125/126	-	Tee	-	P R- 283	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	125/126/127	-	Tee	-	P R- 284	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	126/127/128	-	Tee	-	P R- 285	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	127/128/129	-	Tee	-	P R- 286	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	128/129/130	-	Tee	-	P R- 287	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	129/130/131	-	Tee	-	P R- 288	E	4	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	130/131/132	-	Tee	-	P R- 289	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	131/132/133	-	Tee	-	P R- 290	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	132/133/134	-	Tee	-	P R- 291	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	133/134/135	-	Tee	-	P R- 292	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	134/135	-	436	-	P R- 293	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	134/135/136	-	Tee	-	P R- 294	E	5	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
6-May	136/137/138	-	Tee	-	P R- 295	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	137/138/139	-	Tee	-	P R- 296	E	2	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	138/139/140	-	Tee	-	P R- 297	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	139/140/141	-	Tee	-	P R- 298	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	140/141/142	-	Tee	-	P R- 299	E	3	2	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	141/142/143	-	Tee	-	P R- 300	E	6	3	-	74200011	JC	CS	6-May	HO	P	VTOK	CS
6-May	14/15/144/145	-	Tee	-	P R- 301	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	13/14/144/145	-	Tee	-	P R- 302	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	-	13	551	18'W	P R- 303	E	2	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	12/13/145/146	-	Tee	-	P R- 304	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	11/12/146/147	-	Tee	-	P R- 305	E	5	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	10/11/147/149	-	Tee	-	P R- 306	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	9/10/149/151	-	Tee	-	P R- 307	E	3	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	8/9/151/153	-	Tee	-	P R- 308	E	3	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	7/8/153/155	-	Tee	-	P R- 309	E	8	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	146/147/148	-	Tee	-	P R- 310	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	147/148/149	-	Tee	-	P R- 311	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	-	148	3	2'W	P R- 312	E	2	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	148/149/150	-	Tee	-	P R- 313	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	149/150/151	-	Tee	-	P R- 314	E	4	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	153/155	-	24	-	P R- 315	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
6-May	6/7/155/158	-	Tee	-	P R- 316	E	3	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	5/6/158/160	-	Tee	-	P R- 317	E	3	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	5/160	-	13'W	-	P R- 318	E	8	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	4/5/160/162	-	Tee	-	P R- 319	E	3	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	3/4/162/164	-	Tee	-	P R- 320	E	3	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	2/3/164/166	-	Tee	-	P R- 321	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
6-May	141/143	-	134	-	DP110 R- 322	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	143/144	-	28	-	DP111 R- 323	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	144/145	-	105	-	DP112 R- 324	E	6	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	145/146	-	180	-	DP113 R- 325	E	6	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	146/148	-	263	-	DP114 R- 326	E	6	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	11/147	-	14'W	-	DP115 R- 327	E	7	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	148/150	-	342	-	DP116 R- 328	E	6	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	149/150	-	16'W	-	DP117 R- 329	E	6	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	150/151	-	422	-	DP118 R- 330	E	6	3	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	152/154	-	479	-	DP119 R- 331	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	154/156	-	411	-	DP120 R- 332	E	12	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	156/159	-	81	-	DP121 R- 333	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	160/161/159	-	Tee	-	DP122 R- 334	E	7	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	160/162	-	203	-	DP123 R- 335	E	10	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	2/166	-	13'W	-	DP124 R- 336	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
7-May	166/168	-	74	-	DP125 R- 337	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	168/170	-	49	-	DP126 R- 338	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	162/164	-	16	-	P R- 339	E	2	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	164	-	37	15'W	P R- 340	E	2	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	150/151/152	-	Tee	-	P R- 341	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	151/152/154	-	Tee	-	P R- 342	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	151/153	-	332	-	P R- 343	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	151/153/154	-	Tee	-	P R- 344	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	153/154/156	-	Tee	-	P R- 345	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	156/159	-	389	-	P R- 346	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	156/159	-	371	-	P R- 347	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	153/155	-	280	-	P R- 348	E	2	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	153/155/156	-	Tee	-	P R- 349	E	11	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	155/156/159	-	Tee	-	P R- 350	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	155/158/159	-	Tee	-	P R- 351	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	158/159/160	-	Tee	-	P R- 352	E	4	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	160/162/163	-	Tee	-	P R- 353	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	162/163/165	-	Tee	-	P R- 354	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	162/164/165	-	Tee	-	P R- 355	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	164/166/167	-	Tee	-	P R- 356	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	166/167/169	-	Tee	-	P R- 357	E	16	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
7-May	166/168/169	-	Tee	-	P R- 358	E	2	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	170/171/172	-	Tee	-	P R- 359	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	171/172/173	-	Tee	-	P R- 360	E	3	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	175/176	-	120	-	DP127 R- 361	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	176/177	-	119	-	DP128 R- 362	E	6	2	-	74200011	JC	CS	7-May	DC	P	VTOK	CS
7-May	177/178/64/66	-	Tee	-	DP129 R- 363	E	41	3	-	74200011	JC	CS	12-May	AG	P	VTOK	CS
7-May	184/185	-	116	-	DP130 R- 364	E	6	3	-	74200011	JC	CS	12-May	AG	P	VTOK	CS
7-May	192/193	-	117	-	DP131 R- 365	E	6	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
7-May	193/194	-	115	-	DP132 R- 366	E	6	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
7-May	194/195	-	117	-	DP133 R- 367	E	6	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
7-May	184/185	-	118	-	P R- 368	E	3	2	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	178/179	-	128	-	P R- 369	E	3	2	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	179/180	-	124	-	P R- 370	E	4	3	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	185/186	-	123	-	P R- 371	E	9	3	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	188/189	-	124	-	P R- 372	E	4	3	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	61/62/175/176	-	Tee	-	P R- 373	E	3	2	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	66/68/167	-	Tee	-	P R- 374	E	3	2	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	68/70/179/180	-	Tee	-	P R- 375	E	3	2	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	70/78180/181	-	Tee	-	P R- 376	E	2	2	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	72/74/181/182	-	Tee	-	P R- 377	E	9	3	-	74200011	JC	CS	12-May	DC	P	VTOK	CS
7-May	74/76/182/183	-	Tee	-	P R- 378	E	3	2	-	74200011	JC	CS	12-May	DC	P	VTOK	CS

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Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
7-May	76/78/183/184	-	Tee	-	P R- 379	E	2	2	-	74200011	JC	CS	12-May	GC	P	VTOK	CS
7-May	176/177	-	5	-	P R- 380	E	3	2	-	74200011	JC	CS	12-May	GC	P	VTOK	CS
9-May	195/196	-	6	-	DP134 R- 381	E	6	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	196/197	-	8	-	DP135 R- 382	E	15	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	197/198	-	8	-	DP136 R- 383	E	6	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	207/208	-	9	-	DP137 R- 384	E	7	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	210/211	-	10	-	DP138 R- 385	E	6	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	78/184	-	14	-	DP139 R- 386	E	6	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	104/198	-	12	-	DP140 R- 387	E	6	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	78/80/184/185	-	Tee	-	P R- 388	E	3	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	80/82/185/186	-	Tee	-	P R- 389	E	5	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	82/84/186/187	-	Tee	-	P R- 390	E	2	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	84/86/187/188	-	Tee	-	P R- 391	E	3	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	86/88/188/189	-	Tee	-	P R- 392	E	5	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	88/90/189/190	-	Tee	-	P R- 393	E	7	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	90/92/190/191	-	Tee	-	P R- 394	E	2	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	94/95/192/193	-	Tee	-	P R- 395	E	5	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	95/96/193/194	-	Tee	-	P R- 396	E	3	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	193/194	-	123	-	P R- 397	E	3	2	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	96/98	-	148	-	P R- 398	E	10	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS
9-May	98/100/195/196	-	Tee	-	P R- 399	E	5	3	-	74200011	JC	CS	10-May	AG	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
9-May	100/102/196/19	-	Tee	-	P	R- 400	E	3	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	102/104/197/19	-	Tee	-	P	R- 401	E	8	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	104/106/198/19	-	Tee	-	P	R- 402	E	17	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	106/108/199/20	-	Tee	-	P	R- 403	E	8	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	108/110/200/20	-	Tee	-	P	R- 404	E	3	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	110/112/201/20	-	Tee	-	P	R- 405	E	2	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	112/114/202/20	-	Tee	-	P	R- 406	E	2	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	114/116/203/20	-	Tee	-	P	R- 407	E	4	3	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	116/118/204/20	-	Tee	-	P	R- 408	E	2	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	-	205	123	4'W	P	R- 409	E	5	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	118/120/205/20	-	Tee	-	P	R- 410	E	3	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	120/122/206/20	-	Tee	-	P	R- 411	E	3	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	122/124/207/20	-	Tee	-	P	R- 412	E	5	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	124/126/208/20	-	Tee	-	P	R- 413	E	2	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	126/128/209/21	-	Tee	-	P	R- 414	E	2	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	209/210	-	113	-	P	R- 415	E	5	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	128/130/210/21	-	Tee	-	P	R- 416	E	2	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	130/132/211/21	-	Tee	-	P	R- 417	E	4	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	132/134/212/21	-	Tee	-	P	R- 418	E	2	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	134/136/213/21	-	Tee	-	P	R- 419	E	6	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	136/138/214/21	-	Tee	-	P	R- 420	E	4	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR		SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	NO.AND CODE (1)	REPAIR TYPE (2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
9-May	140/142/216/21	-	Tee	-	P	R- 421	E	4	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	140/142/216/21	-	Tee	-	P	R- 422	E	3	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	142/143/217/21	-	Tee	-	P	R- 423	E	4	3	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	217/218	-	5	-	P	R- 424	E	8	3	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
9-May	218/219	-	5	-	P	R- 425	E	6	2	-	74200011	JC	CS	10-May	GC	P	VTOK	CS
10-May	218/219	-	71	-	DP141	R- 426	E	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	222/223	-	77	-	DP142	R- 427	E	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	229/230	-	67	-	DP143	R- 428	E	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	234/235	-	67	-	DP144	R- 429	E	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	239/240	-	63	-	DP145	R- 430	E	6	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	244/245	-	57	-	DP146	R- 431	E	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	248/249	-	57	-	DP147	R- 432	E	7	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	253/254	-	72	-	DP148	R- 433	E	7	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	258/259	-	65	-	DP149	R- 434	E	7	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	145/220	-	13'W	-	DP150	R- 435	E	6	3	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	165/243	-	9'N	-	DP151	R- 436	E	6	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	142/144/218/21	-	Tee	-	P	R- 437	E	5	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	144/219	-	9'W	-	P	R- 438	E	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	144/145/219/22	-	Tee	-	P	R- 439	E	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	145/146/220/22	-	Tee	-	P	R- 440	E	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	146/148/221/22	-	Tee	-	P	R- 441	E	5	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
10-May	146/148/221/22	-	Tee	-	P R- 442	-	5	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	148/150/222/22	-	Tee	-	P R- 443	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	222/223	-	95	-	P R- 444	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	223/228	-	100	-	P R- 445	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	223/224/228	-	Tee	-	P R- 446	-	9	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	224/225/228	-	Tee	-	P R- 447	-	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	225/226/228	-	Tee	-	P R- 448	-	7	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	226/227/228	-	Tee	-	P R- 449	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	224/225	-	33	-	P R- 450	-	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	230/231/232	-	Tee	-	P R- 451	-	4	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	233/234	-	51	-	P R- 452	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	150/152/228	-	Tee	-	P R- 453	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	150/228/229	-	Tee	-	P R- 454	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	152/229	-	16' S	-	P R- 455	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	152/229	-	9' S	-	P R- 456	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	152/154/229/23	-	Tee	-	P R- 457	-	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	154/232/233	-	Tee	-	P R- 458	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	232/233	-	99	-	P R- 459	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	154/157/233	-	Tee	-	P R- 460	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	157/233/234	-	Tee	-	P R- 461	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	157/234/235	-	Tee	-	P R- 462	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill

LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03

DESCRIPTION Cell 4A YEAR: 2008

PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
10-May	156/157/159	-	Tee	-	P R- 463	-	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	159/236/237	-	Tee	-	P R- 464	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	159/161/237/23	-	Tee	-	P R- 465	-	5	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	161/231/239	-	Tee	-	P R- 466	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	160/161/163	-	Tee	-	P R- 467	-	10	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	163/240/239	-	94	-	P R- 468	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	163/241/242	-	Tee	-	P R- 469	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	163/165/242	-	Tee	-	P R- 470	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	163/165	-	273	-	P R- 471	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	-	165	270	3'E	P R- 472	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	165/242/243	-	Tee	-	P R- 473	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	165/243/244	-	Tee	-	P R- 474	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	243/244	-	49	-	P R- 475	-	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	165/167/244	-	Tee	-	P R- 476	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	164/165/167	-	Tee	-	P R- 477	-	5	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	167/244/245	-	Tee	-	P R- 478	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	167/245/246	-	Tee	-	P R- 479	-	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	169/247/248	-	Tee	-	P R- 480	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	168/169/170	-	Tee	-	P R- 481	-	8	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	168/170	-	138	-	P R- 482	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	170/250/279	-	Tee	-	P R- 483	-	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
10-May	170/172/250/25	-	Tee	-	P R- 484	E	5	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	172/251/252	-	Tee	-	P R- 485	E	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	172/173/252/25	-	Tee	-	P R- 486	E	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	252/253	-	79	-	P R- 487	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	173/253/254	-	Tee	-	P R- 488	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	-	254	88	8'N	P R- 489	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	173/254/255	-	Tee	-	P R- 490	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	173/174/255	-	Tee	-	P R- 491	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	174/255/256	-	Tee	-	P R- 492	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	258/259	-	85	-	P R- 493	E	2	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	247/248	-	5	-	P R- 494	E	6	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
10-May	248/249	-	5	-	P R- 495	E	6	3	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	252/253	-	5	-	P R- 496	E	7	3	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	83/84/85/86	-	102	-	C R- 497	F	440	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	83/85	-	90	-	DP78A R- 498	E	6	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	79/81	-	145	-	DP78B R- 499	E	6	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	90/92	-	64	-	C R- 500	F	102	2	-	74-11	GGM	CS	12-May	HO	P	VTOK	CS
10-May	90/92	-	16	-	DP81A R- 501	E	6	2	-	74-11	GGM	CS	10-May	GC	P	VTOK	CS
10-May	90/92	-	45	-	DP81B R- 502	E	6	2	-	74-11	GGM	CS	10-May	GC	P	VTOK	CS
10-May	92/94	-	472	-	DP82B R- 503	E	53	2	-	74-11	GGM	CS	10-May	GC	P	VTOK	CS
10-May	92/94	-	515	-	DP82A R- 504	E	6	2	-	74-11	GGM	CS	10-May	GC	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR		SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	NO.AND CODE (1)	REPAIR TYPE (2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
10-May	85/87	-	10	-	DP82B- R- 505	E	13	2	-	74-11	GGM	CS	10-May	GC	P	VTOK	CS
12-May	-	153	3'S	13'W	P R- 506	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	-	218	6	10'W	P R- 507	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	192/193	-	96	-	P R- 508	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	61/175/261	-	Tee	-	P R- 509	E	14	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	261/263	-	145'N	-	P R- 510	E	8	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	61/261	-	506	-	P R- 511	E	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	61/261	-	412	-	P R- 512	E	8	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	61/261	-	369	-	P R- 513	E	5	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	61/261/262	-	Tee	-	P R- 514	E	9	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	261/262/263	-	Tee	-	P R- 515	E	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	262/263	-	349	-	P R- 516	E	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	262/263/264	-	Tee	-	P R- 517	E	4	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	263/264/266	-	Tee	-	P R- 518	E	9	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	268/270/271	-	Tee	-	P R- 519	E	5	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	268/271/272	-	Tee	-	P R- 520	E	7	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	268/272/273	-	Tee	-	P R- 521	E	7	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	266/268/269	-	Tee	-	P R- 522	E	7	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	-	266	297	2'W	P R- 523	E	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	266/267	-	13'W	-	P R- 524	E	2	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	264/266/267	-	Tee	-	P R- 525	E	7	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
12-May	266/267/269	-	Tee	-	P	R- 526	E	5	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	264/267	-	102	-	P	R- 527	E	22	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	262/264/265	-	Tee	-	P	R- 528	E	7	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	262/265	-	625'N	-	P	R- 529	E	5	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	60/61/262	-	Tee	-	P	R- 530	E	3	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	60/262	-	198	-	P	R- 531	E	2	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
15-May	60/262	-	812'N	-	P	R- 532	E	3	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
12-May	175/261	-	121	-	P	R- 533	E	6	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
12-May	261/263	-	5	-	P	R- 534	E	6	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	55/274	-	128	-	DP152	R- 535	E	6	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	284/283	-	102	-	DP153	R- 536	E	12	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	288/289	-	94	-	DP154	R- 537	E	21	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	293/294	-	103	-	DP155	R- 538	E	6	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	298/299	-	101	-	DP156	R- 539	E	6	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	303/304	-	97	-	DP157	R- 540	E	6	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	55/274	-	5	-	P	R- 541	E	6	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	274/275	-	5	-	P	R- 542	E	5	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	275/276	-	9	-	P	R- 543	E	5	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	276/277	-	11	-	P	R- 544	E	9	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	277/278	-	6	-	P	R- 545	E	10	5	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	278/279	-	6	-	P	R- 546	E	8	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
15-May	279/280	-	7	-	P R- 547	E	2	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	278/279	-	21	-	P R- 548	E	7	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	276/277/278/27	-	Tee	-	P R- 549	E	6	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	276/279/280	-	Tee	-	P R- 550	E	9	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	280/281	-	42	-	P R- 551	E	4	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	274/275	-	89	-	P R- 552	E	2	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	275/276/280	-	Tee	-	P R- 553	E	3	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	275/280/281	-	Tee	-	P R- 554	E	3	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	274/275/281/28	-	Tee	-	P R- 555	E	9	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	-	274	139	17'W	P R- 556	E	2	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	55/56/274	-	Tee	-	P R- 557	E	4	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	56/274/282	-	Tee	-	P R- 558	E	3	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	56/282/283	-	Tee	-	P R- 559	E	10	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	56/57/283	-	Tee	-	P R- 560	E	4	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	267/308/309	-	Tee	-	P R- 561	E	22	3	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	267/307/308	-	Tee	-	P R- 562	E	4	3	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	267/306/307	-	Tee	-	P R- 563	E	3	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	267/305/306	-	Tee	-	P R- 564	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	267/304/305	-	Tee	-	P R- 565	E	3	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	267/303/304	-	Tee	-	P R- 566	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	264/267/303	-	Tee	-	P R- 567	E	4	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
15-May	264/265/302/30	-	Tee	-	P R- 568	E	5	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	265/301/302	-	Tee	-	P R- 569	E	4	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	265/300/301	-	Tee	-	P R- 570	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	265/299/300	-	Tee	-	P R- 571	E	10	3	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	265/298/299	-	Tee	-	P R- 572	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	262/265/297/29	-	Tee	-	P R- 573	E	5	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	297/298	-	96	-	P R- 574	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	262/296/297	-	Tee	-	P R- 575	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	262/295/296	-	Tee	-	P R- 576	E	8	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	262/294/295	-	Tee	-	P R- 577	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	262/293/294	-	Tee	-	P R- 578	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	262/292/293	-	Tee	-	P R- 579	E	8	3	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	60/262/292	-	Tee	-	P R- 580	E	5	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	60/291/292	-	Tee	-	P R- 581	E	12	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	60/290/291	-	Tee	-	P R- 582	E	3	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	59/60/290	-	Tee	-	P R- 583	E	2	3	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	59/289/290	-	Tee	-	P R- 584	E	3	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	59/288	-	10'S	-	P R- 585	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	59/287/288	-	Tee	-	P R- 586	E	3	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	287/288	-	111	-	P R- 587	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	57/59/287	-	Tee	-	P R- 588	E	4	3	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE	REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)	(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
15-May	57/286/287	-	Tee	-	P R- 589	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	57/285/286	-	Tee	-	P R- 590	E	2	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	285/286	-	102	-	P R- 591	E	3	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	57/284/285	-	Tee	-	P R- 592	E	4	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	267/305	-	18'S	-	DP158 R- 593	E	7	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	308/309	-	95	-	DP159 R- 594	E	7	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	313/314	-	94	-	DP160 R- 595	E	6	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
15-May	57/283/284	-	Tee	-	DP161 R- 596	E	18	3	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	283/284	-	7	-	P R- 597	E	10	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	285/286	-	8	-	P R- 598	E	4	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	285/286	-	44	-	P R- 599	E	8	2	-	74200011	JC	CS	15-May	EV	P	VTOK	CS
15-May	288/289	-	9	-	P R- 600	E	12	2	-	74-11	GGM	CS	15-May	EV	P	VTOK	CS
16-May	269/309/310	-	Tee	-	P R- 601	E	11	3	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	269/310/311	-	Tee	-	P R- 602	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	269/311/312	-	Tee	-	P R- 603	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	-	312	108	2'S	P R- 604	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	269/312/313	-	Tee	-	P R- 605	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	269/273/313/31	-	Tee	-	P R- 606	E	6	3	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	273/314/315	-	Tee	-	P R- 607	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	272/273/315/31	-	Tee	-	P R- 608	E	13	3	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	272/316/317	-	Tee	-	P R- 609	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
16-May	271/272/317	-	Tee	-	P	R- 610	E	3	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	271/317/318	-	Tee	-	P	R- 611	E	3	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	271/318/319	-	Tee	-	P	R- 612	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	270/271/319	-	Tee	-	P	R- 613	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	270/319/320	-	Tee	-	P	R- 614	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	270/320/321	-	Tee	-	P	R- 615	E	2	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	290/291	-	5	-	P	R- 616	E	5	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	293/294	-	4	-	P	R- 617	E	3	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	296/297	-	4	-	P	R- 618	E	5	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	300/301	-	4	-	P	R- 619	E	6	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	301/302	-	16	-	P	R- 620	E	6	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	302/303	-	6	-	P	R- 621	E	9	3	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	303/304	-	6	-	P	R- 622	E	9	3	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	305/306	-	6	-	P	R- 623	E	3	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	309/310	-	7	-	P	R- 624	E	12	3	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	313/314	-	5	-	P	R- 625	E	7	3	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	315/316	-	5	-	P	R- 626	E	6	3	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	315/316	-	61	-	P	R- 627	E	6	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	316/317	-	39	-	P	R- 628	E	5	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	318/319	-	4	-	P	R- 629	E	6	3	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	319/320	-	7	-	P	R- 630	E	2	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS

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G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03
DESCRIPTION Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR NO.AND CODE		REPAIR TYPE	SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	(1)		(2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
16-May	261/263	-	10'S	-	P	R- 631	E	2	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	315/316	-	42'W	-	P	R- 632	E	2	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	79/81/Cap	-	148'S	-	P	R- 633	E	4	3	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	79/81/Cap	-	87'S	-	P	R- 634	E	3	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	79/81/Cap	-	3'S	-	P	R- 635	E	3	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	83/85/Cap	-	137'S	-	P	R- 636	E	4	4	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	83/85/Cap	-	224'S	-	P	R- 637	E	3	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	84/86/Cap	-	6'S	-	P	R- 638	E	4	3	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	84/86/Cap	-	139'S	-	P	R- 639	E	3	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	84/86/Cap	-	152'S	-	P	R- 640	E	3	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	297/298	-	46'W	-	P	R- 641	E	3	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
12-May	144/145	-	105'S	-	C	R- 642	E	32	3	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	144/145	-	92'S	-	P	R- 643	E	6	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
12-May	144/145	-	118'S	-	P	R- 644	E	6	2	-	74200011	JC	CS	12-May	HO	P	VTOK	CS
17-May	207/208	-	10'N	-	C	R- 645	E	21	2	-	74-11	GGM	CS	17-May	GGM	P	VTOK	CS
17-May	207/208	-	17'N	-	P	R- 646	E	6	2	-	74-11	GGM	CS	17-May	GGM	P	VTOK	CS
16-May	205/206	-	13'S	-	C	R- 647	E	26	2	-	74-11	GGM	CS	17-May	GGM	P	VTOK	CS
16-May	205/206	-	23'S	-	DP38B2	R- 648	E	6	2	-	74-11	GGM	CS	16-May	EV	P	VTOK	CS
16-May	-	274	7'N	2'E	P	R- 649	E	2	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
16-May	282/283	-	15'W	-	P	R- 650	E	2	2	-	74200011	JC	CS	16-May	EV	P	VTOK	CS
17-May	79/Cap	-	129'S	-	DP162	R- 651	E	7	2	-	74-11	GGM	CS	17-May	GGM	P	VTOK	CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE
G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

REPAIR SUMMARY LOG

PROJECT: Denison Mines White Mesa Mill

LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02//03

DESCRIPTION Cell 4A YEAR: 2008

PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] CONTRACTOR: Comanco

DATE	LOCATION				REPAIR		SIZE			WELDER ID			NON-DESTRUCTIVE				
day/mo	SEAM	PANEL	DIST (ft)	OFFSET (ft)	NO.AND CODE (1)	REPAIR TYPE (2)	LENGTH (ft)	WIDTH (ft)	DIA (ft)	MACH. NO.	OPER. ID	QA ID	TESTING DATE day/mo	OPER. ID	PASS/ FAIL	ACTION	QA ID
17-May	83/Cap	-	32'N	-	DP163 R- 652	E	7	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	-	88	14'E	6'S	P R- 653	E	2	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	-	88	8'E	6'S	P R- 654	E	2	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	-	136	10'W	5'S	P R- 655	E	2	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	263/266	-	103'N	-	P R- 656	E	2	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	263/266	-	111'N	-	P R- 657	E	2	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	268/271	-	7'N	-	P R- 658	E	2	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	319/320	-	13'W	-	P R- 659	E	8	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	-	268	15'N	2'E	P R- 660	E	2	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	313/314		58'W	-	P R- 661	E	4	2	-	74-11	JC	CS	17-May	GGM	P	VTOK	CS
17-May	-	5	360'S	8'E	P R- 662	E	5	3	-	74200011	GGM	CS	17-May	GGM	P	VTOK	CS
17-May	-	119	40'S	9'E	P R- 663	E	3	2	-	74200011	GGM	CS	17-May	GGM	P	VTOK	CS
17-May	-	109	125'S	2'E	P R- 664	E	3	2	-	74200011	GGM	CS	17-May	GGM	P	VTOK	CS
					665							CS					CS
					666							CS					CS
					667							CS					CS
					668							CS					CS
					669							CS					CS
					670							CS					CS
					671							CS					CS
					672							CS					CS

(1) REPAIR CODES SHOULD BE NUMBERED SEQUENTIALLY, REPAIR CODES: P=PATCH C=CAP S=ANCHORTRENCH EXTENSION (SKIRT) DS-DESTRUCTIVE SAMPLE

G=GRIND AND WELD T=TOPPING ALONG FUSION SEAM (2) REPAIR TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
665	P	5-28-08	285/286		11'W		2	2		74-11	H.O	RS	5-28-08	RG.	✓		VTOK	RS
666	P	5-28-08	310/311		19W		2	2		74-11	H.O	RS	"	R.G	✓			RS
667	"	"	317/318		10'W		2	2		74-11	H.O	RS	"	RG	✓			RS
668	"	5/21	61/261		77'N		2	2		74-11	RR	RS	"	RG	✓			RS
669	"	"	61/261		127'N		3	2		74-11	RR	RS	"	RG	✓			RS
670	"	5/29/08	263/266		165'N		3	2		74-11	H.O	RS	"	RG	✓			RS
671	"	"	181/182		4'S		2	2		74-11	H.O	RS	"	RG	✓			RS
672	"	5/28	182/183		8'S		3	2		74-11	H.O	RS	5/28	RG	✓			RS
673	"	5/29	200/201		8'S		2	2		74-11	H.O	RS	5/29	RG	✓			RS
674	"	5/29	216/217		58'S		2	2		74-11	H.O	RS	"	RG	✓			RS
675	"	"	*	131		5E 2'S	2	2		74-11	H.O	RS	"	RG	✓		↓	RS
676	"	"	218/219		10'S		3	3		74-11	H.O	RS	"	RG	✓		VTOK	RS
677	"	"	219/220	144-145			2	2		74-11	H.O	RS	"	RG	✓			RS
678	"	"	220/221	146-148			4	3		74-11	H.O	RS	"	RG	✓			RS
679	"	"	221/222	146			2	2		74-11	H.O	RS	"	RG	✓			RS
680	"	"	221/222		189		5	3		74-11	H.O	RS	"	RG	✓		↓	RS
681	"	6/3/08	162/164		53'S		2	2		742-11	J.C	RS	6/3/08	R.G	✓		VTOK	RS
682	"	"		255	2'S		2	2		742-11	JC	RS	"	RG	✓		↓	RS
683	"	6/4/08	160/162		144'N		2	2		742-11	JC	RS	6-4-08	RG	✓			RS

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
684	P	6/9/08	160/162		95'N		2	2		792-11	JL	RB	6/4/08	RG	✓		VTOL	RB
685	P	"	159/160		137'N		3	2		792-11	JL	RB	"	"	✓		↓	RB
686	P	"	150/151		85'N		3	2		792-11	JL	RB	"	"	✓			RB
687	P	6/9/08	[illegible]	85	147'N		2	2		"	JL	RB	"	"	✓			RB
688	P	"	99/100		5'W		5	2		"	"	RB	6/9/08	"	✓			RB
689	P	"	37/38		140'N		2	2		"	"	RB	"	"	✓			RB
690	P	"	29/30		23'N		3	2		"	"	RB	"	"	✓			RB
691	P	"	31/32		230'N		2	2		"	"	RB	"	"	✓			RB
692	P	"	32/33				2	2		"	"	RB	"	"	✓			RB
693	P	"	28/29		233'S		3	2		"	"	RB	"	"	✓		↓	RB

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
694 P	E	6/9	36/35		185		2	2		742-11	JC		6/11	MR	✓		ITOL	
695 P	E	6/9	36/35		435		3	2		"	"			MR	✓			
696 P	E		35/34		355		2	2		"	"			MR	✓			
697 P	E		35/34		915		4	3		"	"			MR	✓			
698 P	E		35/34		5		5	4		"	"			MR	✓			
699 P	E		28/27		165		2	2		"	"			MR	✓			
700 P	E		27/26		415		3	2		"	"			MR	✓			
701 P	E		27/26		135		5	4		"	"			MR	✓			
702 P	E		27/26		75		4	2		"	"			MR	✓			
703 P	E		29/28	119-117			3	3		"	"			MR	✓			
704 P	E		28.27		45		2	2		742-11	JC			MR	✓			
705 P	E		22.21		35		4	3		"	"			MR	✓			
706 P	E		22.21		195		3	2		"	"			MR	✓			
707 P	E		21.20		115		2	2		"	"			MR	✓			
708 P	E	"	20.19		24N		2	2		"	"			MR	✓			
709 P	E	"	19.18		32N		5	2		"	"			MR	✓			
710 P	E	6/9/08	18.17		155		2	2		"	"			MR	✓			
711 P	E	"	18.17		235		4	2		"	"			MR	✓			
712 P	E	"	18.17		455		9	3		"	"			MR	✓			

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
713 P	F	6/9	18-17		34S		3	2		742-11	SC	BB	6/13	MR	✓		VTOL	BB
714 P	F	6/9	17-16		19S		4	2		"	"	BB	"	"	✓		VTOL	BB
715 P	F	6/9	17-16		25S		5	4		"	"	BB	"	"	✓			BB
716 P	F	6/9	17-16		43S		8	2		"	"	BB	"	"	✓			BB
717 P	F	6/9	16-15		13S		2	2		"	"	BB	"	"	✓			BB
718 P	F	6/9	16-15		42N		4	3		"	"	BB	"	"	✓			BB
719 P	F	6/9	15-14		34N		2	2		"	"	BB	"	"	✓			BB
720 P	F	6/9	14-13		17S		3	2		742-11	SC	BB	"	"	✓			BB
721 P	F	6/9	14-13		19S		2	2		742-11	SC	BB	"	"	✓			BB
722 P	F	6-11	180-179		7N		4	4		74-11	RG	BB	"	"	✓			BB
723 P	F	6/11	180-179		15N		3	2		74-11	RG	BB	"	"	✓			BB
724 P	F	6/11	178-179		4N		4	3		"	"	BB	"	"	✓			BB
725 P	F	"	178-179		14N		2	2		"	"	BB	"	"	✓			BB
726 P	F	"	177-178		15S		3	3		"	"	BB	"	"	✓			BB
727 P	F	"	177-178		23S		4	3		"	"	BB	"	"	✓			BB
728 P	F	"	176-175		4S		4	2		"	"	BB	"	"	✓			BB
729 P	F	"	176-177		18N		2	2		"	"	BB	"	"	✓			BB
730 P	F	"	175-176		13N		2	3		"	"	BB	"	"	✓			BB
731 P	F	"	176-177		11S		4	3		"	"	BB	"	"	✓		↓	BB

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
732 P	E	6/11	324.325		0 N		3	2		74-11	RG							
733 P	E	6/11	324.325		13 N		2	2		74-11	"							
734 P	E	6/11	326.325		6 N		3	3		"	"							
735 P	E	6/11	326.325		18 N		2	3		"	"							
736 P	E	6/11	327.326		9 N		4	3		"	"							
737 P	E	6/11	327.326	331			5	2		"	"							
738 P	E	6/11	327.326	331			2	2		"	"							
739 P	E	6/11	327.328		3 N		6	3		"	"							
740 P	E	11	328.329		9 N		4	2		"	RG							
741 P	E	11	328.329	331			3	2		"	RG							
742 P	E	11	329.330		1 N		4	3		"	"							
743 P	E	11	330.331	→	5 N		5	4		"	RG							
744 P	E	6/11	330.331		2 N		6	2		"	"							
745 P	E	11	329.330		6 S		2	2		"	"							
746 P	E	11	331.332		3 E		3	3		"	"							
747 P	E	11	331.332		8 E		2	2		"	"							
748 P	E	11	332.333		7 E		2	2		"	"							
749 P	E	11	333.334		2 E		2	2		"	"							
750 P	E	11	333.334		4 E		2	2		"	"							

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
751 P	G	6/18/08	1/337		70'S		3	2		74-11	RG	BS	6/19	LG	✓		VTOK	BS
752 P	E	"	1/337		100'S		2	2		"	"	BS	"	"	✓			BS
753 P	E	"	1/337		104'S		6	4		"	"	BS	"	"	✓			BS
754 P	E	"	"		120'S		2	2		"	"	BS	"	"	✓			BS
755 P	G	"	"		133'S		2	2		"	"	BS	"	"	✓			BS
756 P	G	"	"		147'S		3	2		"	"	BS	"	"	✓			BS
757 P	E	"	"		156'S		2	2		"	"	BS	"	"	✓			BS
758 P	E	"	"		338'S		3	2		"	"	BS	"	"	✓			BS
759 P	E	6/17	"		424'S		2	2		"	"	BS	"	"	✓			BS
760 P	G		337/339		161'S	21W	2	2		"	"	BS	"	"	✓			BS
761 P	E		337/339		100		5	2		"	"	BS	"	"	✓			BS
762 P	E	6/17	337/338	1	E		4	2		"	"	BS	"	"	✓			BS
763 P	E	6/17	337/338	339			4	2		"	"	BS	"	"	✓			BS
764 P	E	6/19	337/338		91W		5	2		"	"	BS	"	"	✓			BS
765 P	E	6/18	1/338		8'S		2	2		"	"	BS	"	"	✓			BS
766 P	G	"	1/338		28'S		2	2		"	"	BS	"	"	✓			BS
767 P	E	6/18	1/338		40'S		2	2		"	SL	BS	"	"	✓			BS
768 P	G-DP182	6/19	338/339		27'N		6	2		"	RG	BS	"	"	✓			BS
769 P	G	6/18	338/170	1/168			4	2		"	"	BS	"	"	✓		↓	BS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
770 P	E	6/18	338/339	170/171			4	2		74-11	JC	RR	6/19/08	LG	✓		VTOL	RS
771 P	E	6/18	339/342	171/173			5'	2		74-11	"	RS	"	"	✓			RS
772 P	G	6/18	173/342		71N		2	2		"	"	RS	"	"	✓			RS
773 P	E	"	342/344	173/174			3	2		"	"	RS	"	"	✓			RS
774 P	E	6/19	339/341		65'S					"	RG	RS	"	"	✓			RS
775 P	E	6/17		341	2'S	4'W							"	"	✓			RS
776 P	G	6/17	341/342	339				2	2	"	"	RS	"	"	✓			RS
777 P	E	"	341/342	343				2	2	"	"	RS	"	"	✓			RS
778 P	E	6/17	343/344	342				2	2	"	"	RS	"	"	✓			RS
779 P	G	"	343/344	346				2	2	"	"	RS	"	"	✓			RS
780 P	G	6/18	345/346	343				3	2	"	SC	RS	"	"	✓			RS
781 P	E	6/18/56	340/341	339/344			4	2		74-11	RG	RS	"	"	✓			RS
782 P	G	6/17	340/341	343			2	2		"	"	RS	"	"	✓			RS
783 P	G	6/19	340/343		48N	FP184	6	2		"	"	RS	"	"	✓			RS
784 P	E	"	340/343		98S		5'	2		"	"	RS	"	"	✓			RS
785													"	"	✓			RS
786 P	E	6/18	343/345		101'S		6	2		"	"	RS	"	"	✓			RS
787 P	E	"	343/345		121'S		2	2		"	"	RS	"	"	✓			RS
788 P	E	6/18	345/347		101'S		5'	2		"	"	RS	"	"	✓		↓	RS

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
789 G	P	6/18/08	345/345		129'		2	2		74-11	RG	BB	6/19	LG	/		VTOL	BB
790			347/348	345									6/19	LG	/		VTOL	BB
791 G	R	6/18	347/350		98'5		2	2		74-11	RG	BB	6/19	LG	/		VTOL	BB
792 G	P	6/18	347/350		67'5		12	3		74-11	RG	BB	6/19	LG	/		VTOL	BB
793 G	P	6/18	350/352		102'5		10	2		74-11	RG	BB	6/19	LG	/		VTOL	BB
794 G	P	6/18	352/355		99'5		12	2		74-11	RG	BB	6/19	LG	/		VTOL	BB
795 G	P	6/18	352/355		37'5		2	3		74-11	RG	BB	6/19	LG	/		VTOL	BB
796 G	P	6/18	355/356		69'5		3	2		74-11	RG	BB	6/19	LG	/		VTOL	BB
797 G	P	6/18	355/356		104'		5	2		74-11	RG	BB		LG	/			BB
798 G	P	6/18	355/356		114'5		3	2		74-11	RG	BB		LG	/			BB
799 E	P	6/18	345/346	349			3	2		74-11	JC	BB		LG	/			BB
800 G	P	6/18	348/349	345			3	2		74-11	JC	BB		LG	/			BB
801 G	P	6/18	347/348	345			3	2		74-11	RG	BB		LG	/			BB
802 G	P	6/18	347/348	351			3	2		74-11	JC	BB		LG	/			BB
803 G	P	6/18	353/354	351			3	2		74-11	JC	BB		LG	/			BB
804 G	P	6/18	353/354	355			2	2		74-11	JC	BB		LG	/			BB
805 E	P	6/18	353/354		10'5		3	2		74-11	JC	BB		LG	/			BB
806 G	P	6/18	352/353	351			2	2		74-11	JC	BB		LG	/			BB
807 E	P	6/19	352/353			OP. 180	6	2		74-11	JC	BB	↓	LG	/		↓	BB

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
808 G	P	6/18	352/353	355			2	2		74-11	SC	BB	6/19	LG	✓		VTDK	BB
809 G	P	6/18	356/357	347			3	2		74-11	SC	BB	"	"	✓			BB
810 G	P	6/18	350/351	352			4	3		74-11	SC	BB	"	"	✓			BB
811 E	P	6/18	356/366	355			2	2		74011	SC	BB	"	"	✓			BB
812 G	P	6/19	356/366	[illegible]	7'E		13	2		74011	SC	BB	"	"	✓			BB
813 G	P	6/19	356/357	363			4	2		74011	SC	BB	"	"	✓			BB
814 E	P	6/18	356/357		105'S		5	4		7411	RG	BB	6/19	LG	✓			BB
815 E	P	6/18	356/357		96'S		4	2		7411	RG	BB	"	"	✓			BB
816 E	P	6/18	357/358	363	102'S		2	3		7411	"	BB	"	MR	✓			BB
817 E	P	"	358/359	363			2	4		7411	"	BB	"	"	✓			BB
818 E	P	"	359/360	363			2	2		7411	"	BB	"	"	✓			BB
819 E	P	6/19	359/360		44'S		6	2		7411	"	BB	"	"	✓			BB
820 E	P	6/18		360	51'S	7'W	2	2		"	"	BB	"	"	✓			BB
821 E	P	6/18	360/361		20'S	21W	4	2		"	"	BB	"	"	✓			BB
822 E	P	6/19	360/361	363			2	3		"	"	BB	"	"	✓			BB
823 E	P	6/18	361/362	363	36'S		2	3		"	"	BB	"	"	✓			BB
824 E	P	6/19	361/362		26'S	DP:176	5	2		"	"	BB	"	"	✓		✓	BB
825 E	P	6/19		360	14'S					"	"	BB	"	"	✓			BB
826 E	P	6/18		360		50'S	3	2		"	"	BB	"	"	✓		VTDK	BB

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
827 E	S	6/19	361/363		0'		3	6		74-11	RG	BJ	6/19	MR	✓		VTL	RS
828 E	S	6/18	362/363		0'		4	4		"	"	RS	"	"	✓			RS
829 P	E	"	363, 364		16'		2	2		74-11	RG	RS		MR	✓			RS
830 P	E	"	363. 364		5' E		2	3		"	"	RS		MR	✓			RS
831 P	E	"	364. 365		2' E		4	2		"	"	RS		MR	✓			RS
832 P	E	"	364. 365		6' E		2	2		"	"	RS		MR	✓			RS
833 P	E	"	364. 365		1' E		3	2		"	"	RS		MR	✓			RS
834 E	P	6/18	356/357	174/349			4	4		74011	JC	RS		MR	✓			RS
835 E	P	"	257/346	346			2	2		"	"	RS		MR	✓			RS
836 E	P	"	257/258	346			3	2		"	"	RS		MR	✓			RS
837 E	P	6/17	256/259	346			4	2		74 11	RG	RS		MR	✓			RS
838 E	P	"	259/260	346/349			3	2		74 11	RG	RS		MR	✓			RS
839 E	P	6/18	260/267	349			5	4		74011	JC	RS		MR	✓			RS
840 E	P	"	367/549		10' ✓		2	2		"	"	RS		MR	✓			RS
841 E	P	"	367/368	349			2	2		"	"	RS		MR	✓			RS
842 E	P	"	354/368	348/349			6	3		"	"	RS		MR	✓			RS
843 E	P	"	368/369	351			2	2		"	"	RS		MR	✓			RS
844 E	P	"	369/370	351			2	2		"	"	RS		MR	✓			RS
845 E	P	"	370/371	351/354			7	2		"	"	RS	↓	MR	✓		↓	RS

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
846 P	E	6/18	371/372	354			2	2		74011	JL	RS	6/19	MR	✓		ATOL	RS
847 P	E	"	372/373	354/355			4	2		74011	JL	RS		MR	✓			RS
848 P	E	6/18	373/374	355			2	2		74011	"	RS		MR	✓			RS
849 P	E	"	355/374		4'S		7	2		7411	RS	RS		MR	✓			RS
850 P	E	"	374/375	355			2	2		7411	"	RS		MR	✓			RS
851 P	E	"	355/366	375			2	2		"	"	RS		MR	✓			RS
852 P	E	"	375/376	366			2	2		"	"	RS		MR	✓			RS
853 P	E	"	376/377	366			2	2		"	"	RS		MR	✓			RS
854 P	E	"	377/378	366			3	2		"	"	RS		MR	✓			RS
855 P	E	"		377		9'W 5'S	2	2		"	"	RS		MR	✓			RS
856 P	E	"		377		9'W 5'S	2	2		"	"	RS		MR	✓			RS
857 P	E	"		377		15'W 5'S	2	2		"	"	RS		MR	✓			RS
858 P	E	"	356/366	378			2	2		"	"	RS		MR	✓			RS
859 P	E	"	378/379	356			2	2		"	"	RS		MR	✓			RS
860 P	E	"	356/365	379			5	2		"	"	RS		MR	✓			RS
861 P	E	"	379/380	365			3	2		"	"	RS		MR	✓			RS
862 P	E	"	365/380		4'E	DP 186	6	2		"	"	RS		MR	✓			RS
863 P	E	"	380/381	365			3	2		"	"	RS	6/19	MR	✓			RS
864 P	E	"	381/382	365			5	2		"	"	RS	"	"	✓		✓	RS

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
865 P	E	6/18/08	362/363	365			3	2		7411	RG	BS	6/19/08	MR	✓		VTOK	BS
866 P	E	"	363/365		5'E		2	2		"	"	"	"	"	✓			BS
867 P	E	"	363/364	365			3	2		"	"	"	"	"	✓			BS
868 P	E	"	364/365		4'E		9	2		"	"	"	"	"	✓			BS
869 P	E	"	364/365	365			3	2		"	"	"	"	"	✓			BS
870 P	E	"	385/386	365			9	2		"	"	"	"	"	✓			BS
871 R	G	"	365/381				3	4		"	"	"	"	"	✓		✓	BS
872 P	G	"	378/379		11'3		6	2		"	"	"	"	"	✓		VTOK	BS
873 P	G	"	375/376		12'3		7	2		"	"	"	"	"	✓			BS
874 S-P	E	"	372/373		0'E		6	2		7411	RG	"	"	"	✓			BS
875 P	E	6/18	371/372		4'E		6	2		"	"	"	"	"	✓			BS
876 S-P	E	6/18	371/372		0'E		3	3		"	"	"	"	"	✓			BS
877 P	E	6/19	369/360		2'W		6	2		"	"	"	"	"	✓			BS
878 P	E	6/19	360/367	DP-170	4'W		6	2		"	"	"	"	"	✓		✓	BS
879 S	E	6/19	360/367	~~DP-170~~	0'E		4	3		"	"	"	"	"	✓		VTOK	BS

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☒ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
880 P	E	6/19	369-370		2E		2	2		74-11	RG	BS	6/20	MR	✓		VTOL	BS
881 P	E	6/19	369-370		11E		3	2		74-11	RG	BS	6/20	MR	✓		✓	BS
882 P	E	6/19	372-373		8E		2	2		"	RG	BS	6/20	MR	✓		✓	BS

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DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ■ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
886	E	6-19-08	319-318-CL2 R 271				4.25	4		011	JC	WW	6/26	MR	↑		VTOL	RR
885	E	"	319-CL2-271-270				6	4.25		011	JC	WW	↓	↓	↑		↓	RR
884	E	"	320-319-CL2 270				5	4.5		011	JC	WW			↑			RR
883	E	"	321-320-CL2 270				5	4.5		011	JC	WW			↑			RR
882	E	"	322-321-CL2 270				4	3.5		011	JC	WW			↑			RR

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DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation [X] PRIMARY [ ] SECONDARY [ ] OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
905	E	6-19-08	301-C36-300 C12-265				5	5		011	JC	WW	6/20	MR	✓		VTOK	
904	E	"	302-301-C12 265				6.5	3		011	JC	WW		MR	✓			
903	E	"	304-C31-303 C12-265-264-267				37	2.5		011	JC	WW		MR	✓			
902	E	"	305-304-C12 267				6.5	1		011	JC	WW		MR	✓			
901	E	"	305-267-C12				7.5	8		011	JC	WW		MR	✓			
900	E	"	306-305-C12 267				3	2.5		011	JC	WW		MR	✓			
899	E	"	307-C39-306 C12-267				6	6		011	JC	WW		MR	✓			
898	E	"	308-307-C12 267				4.5	4		011	JC	WW		MR	✓			
897	E	"	309-308-C39 C12-267-C14-269				10.5	15		011	JC	WW		MR	✓			
896	E	"	310-309-C12 269				8	4		011	JC	WW		MR	✓			
895	E	"	311-310-C12-269				5	4		011	JC	WW		MR	✓			
894	E	"	312-311-C12 269				5	4.5		011	JC	WW		MR	✓			
893	E	"	313-312-C12 269				5	4		011	JC	WW		MR	✓			
892	E	"	314-313-C12 269-268-272				9.5	5.		011	JC	WW		MR	✓			
891	E	"	315-314-C12 273				5	4		011	JC	WW		MR	✓			
890	E	"	316-315-C12 273-272				10	4		011	JC	WW		MR	✓			
889	E	"	317-316-C12 272				5.5	4		011	JC	WW		MR	✓			
888	E	"	317-C12-272-271				5	4		011	JC	WW		MR	✓			
887	E	"	318-317-C12 271				5.25	4.5		011	JC	WW	✓	MR	✓		✓	

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DENISONMINES

REPAIR SUMMARY LOG

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DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
924P	E	6/19/08	284-285-286-57				19	3		7411	RG	RG	6/21	MR	✓		VTK	RG
923	E	6/19/08	285-284-CAP12-56				7.5	3		7411	RG	WW		MR	✓			
922	E	"	286-285-C12-57				6.5	4		7411	RG	WW		MR	✓			
921	E	6/21/08	287-C12-286-C12-57				6	6.25		7411	RG	WW		MR	✓			
920	E	6/19/08	288-287-C12-59-57				10	4		7411	RG	WW		MR	✓			
919	E	"	288-C12-59				5.5	3.5		7411	RG	WW		MR	✓			
918	E	"	287-288-C12-59				7	3		7411	RG	WW		MR	✓			
917	E	"	290-289-C26 C12-59				5.5	5.25		7411	RG	WW		MR	✓			
916	E	"	291-290-C12-59-60				14.5	14		7411	RG	WW		MR	✓			
915	E	"	292-291-C12-60				7	3		7411	RG	WW		MR	✓			
914	E	"	293-C33-292 C12-60-262				17.25	3		7411	RG	WW		MR	✓			
913	E	"	294-293-C12-262				8	4		7411	RG	WW		MR	✓			
912	E	"	294-C12		5'S		2	1.5		7411	RG	WW		MR	✓			
911	E	"	295-294-C12-262				7.25	4		7411	RG	WW		MR	✓			
910	E	"	296-295-C12-262				6	4		7411	RG	WW		MR	✓			
909	E	"	297-296-C12-262				6	4		7411	RG	WW		MR	✓			
908	E	"	298-297-C12-262-C15-265				13.25	3.5		7411	RG	WW		MR	✓			
907	E	"	299-298-C12-265				5.25	4.25		7411	RG	WW		MR	✓			
906	E	"	300-C35-299 C12-265				7	3.5		7411	RG	WW	↓	MR	✓		↓	

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
925	E	6-19-08	228-C14-266 32.1				2	2					6/21	MR	/		VTOL	
926	E	"	269-C14		15'S		2	2						MR	/			
927	E	"	269-C14		11'S		2	2						MR	/			
928	E	"	269-C14		2'S		3	2						MR	/			
929	E	6-19-08	228-C14-[illegible] 223 266				2.25	3.75		011	JC	WW	6/21	MR	/		VTOL	
930	E	"	266 C14		100'S		4	1.25		011	JC	WW		MR	/			
931	E	"	268-C14		93'S		2	1		011	JC	WW		MR	/			
932	E	"	268-C14		98'S		2	1.5		011	JC	WW		MR	/			
933	E	"	268-C14		63'S		1	1		011	JC	WW		MR	/			
934	E	"	266-C14 268		50'S		8	3		011	JC	WW		MR	/			
935	E	"	266-C14 268		15'S		3	3.5		011	JC	WW		MR	/			
936	E	"	268-269-C14 266				9	4		011	JC	WW		MR	/			
937	E	"	269-C14-[illegible]		39'N		2	2		011	JC	WW		MR	/			
938	E	"	269-C14		42'N		2.5	2		011	JC	WW		MR	/			
939	E	"	269-C14-267-266				8	3.5		011	JC	WW		MR	/			
940	E	"	269-C14-267				3	2.5		011	JC	WW		MR	/			
941	E	"	269-C14		24'S		1	1		011	JC	WW		MR	/			
942	E	"	267-C14		21'N		1.5	1		011	JC	WW	↓	MR	/		↓	

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
943 P	E	6/19/08	262/265	C15	[illegible]		7.8	3		7401	JC	BS	6/23/08	MR	✓		VTOL	BS
944 P	E	"	265/[illegible]	C15	265		3	2		"	"	BS	6/23	MR	✓			BS
945 P	E	"	265·C15		36"		4	3		"	"	BS	"	"	✓			BS
946 P	E	6/19	60/61/262	C Wedge			2	3		"	"	BS	"	MR	✓			BS
947 P	E	6/19	60·61·62·58				6	4		7411	RG	BS	"	"	✓			BS
948 P	E	6/19	62·58·63·56				7	4		7411	RG	BS	"	"	✓			BS
949 P	E	6/19	58·56		167.5		6	3		7411	RG	BS	"	"	✓			BS
950 P	E	6/20	282·281·274·275	C·21·C·18 C·22			10	6		7411	RG	BS	6/21	MR	✓			BS
950 P	G	"	[illegible]	56·57·58			20	3		7411	RG	BS	"	MR	✓			BS
952 P	E	6/20	281·280·275	C·18			5	2		7411	RG	BS	6/21	MR	✓			BS
953 P	E	6/20	280·275·276	C·18			4	3		7411	RG	BS	6/21	"	✓			BS
954 P	E	6/20	279·280·276	C·18			13	5		7411	"	BS	6/21	"	✓			BS
955 P	E	"	279·278·277·276	C·18			11	3		"	"	BS	"	"	✓			BS
956 P	E	"	278·277	C·18	95		6	2		7411	"	BS	"	"	✓			BS
957 P	E	"	278·277	C·18	48"S		3	3		"	"	BS	"	"	✓			BS
958 P	E		281·282·	C·21			6	2		"	"	BS	"	"	✓			BS
959 P	E DS-2		282·C21		6'6		6	2		"	"	BS	"	"	✓			BS
960 P	E	6/20	282·281		1'N		3	3		7411	RG	BS	6/21	MR	✓			BS
961 P	E	"	285·282	C	1 N		2	3		"	"	BS	"	"	✓		↓	BS

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
962 P	E	6/20	287-286		1N	S	3	4		7411	RG	RB	6/21	MR	/		VTOK	RB
963 P	E DS 3	6/21	287-C49		4E		6	2		"	"	RB	"	"	/			RB
964 P	E	6/21	291-290	C26			5	2		"	"	RB	"	MR	/			RB
965 P	E	6/20	293-292		1W		2	4		7411	RG	RB	6/21	MR	/			RB
966 P	E	"	296-295		1N		2	4		"	"	RB	"	MR	/			RB
967 P	E	"	299-300	C35			4	2		"	"	RB	"	MR	/			RB
968 P	E	6/20	301-306		1N		3	4		7411	RG	RB	6/21	MR	/			RB
969 P	E	"	304-303		0N		7	3		"	"	RB	"	MR	/			RB
970 P	E	"	306-307		1N		2	4		"	"	RB	"	MR	/			RB
971 P	E	"	308-309	C39			5	3		"	"	RB	"	MR	/			RB
972 P	E	6/21	309-309	C39			3	2		"	"	RB	6/23	MR	/			RB
973 P	E	"	308-C39		38W		2	2		"	"	RB	"	"	/			RB
974 P	E	"	306-C38		16W		6	2		"	"	RB	"	MR	/			RB
975 P	E		300-301	C36	8W		3	2		"	"	RB	"	MR	/			RB
976 P	E	6/20	295/C34		12W		4	3		74-11	RG	RB	6/21	MR	/			RB
977 P	E	"	279-275	C22			6	2		"	"	RB	"	MR	/			RB
978 P	E	"	278-275	C22			3	2		742011	JC	RB	"	"	/			RB
979 P	E	6/20	274-273		2S		3	4		74011	JC	RB	6/23	MR	/			RB
980 P	E	6/20	54-55		12TS		5	3		"	"	RB	6/23	MR	/		↓	RB

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT)
DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
981 P	E	6/20	54.55		108'		3	10		740N	JC	RB	6/20	MR	✓		VTOL	RB
982 P	E	6/20	273-272		1'		2	3		7401	JC	RB	6/21	MR	✓			RB
983 P	E	6/20	54.53	C-32	126'		5	3		"	"	RB	6/23	MR	✓			RB
984 P	E	"	54.53	C-32	114'		8	4		"	"	RB	6/20	MR	✓			RB
985 P	E	6/20	54.53		35'		2	3		740 11	JC	RB	6/24	MR	✓			RB
986 R	E	6/20	52.53	C.51	211'		3	5		"	"	RB	6/23	MR	✓			RB
987 P	E	"	52.53	C.51			6	4		"	"	RB	6/23	MR	✓			RB
988 P	E	6/20	53.52		1'		4	4		7401	JC	RB	6/21	MR	✓			RB
989 P	E	6/20	62.63.65.65				14	4		"	"	RB	6/23	MR	✓			RB
990 P	E	6/21	55.65.54.67				6	4		7411	RS	RB	"	"	✓			RB
991 P	E	6/21	54.67.53.69				7	4		"	"	RB	"	"	✓			RB
992 P	E	6/21	52.53.69.71				7	8		"	"	RB	"	"	✓			RB
993 P	E	6/23	51.52.71.73				7	3		"	"	RB	"	"	✓			RB
994 P	E	6/25	50.51.75.75				6	5		742 11	JC	RB	"	"	✓			RB
995 R	E	6/25	49.50.75.77				6	3		742 11	"	RB	"	"	✓			RB
996 P	E	6/25	48.49.77.79				6	3		742 11	"	RB	"	"	✓			RB
997 P	E	"	47.48.79.81				5	3		742 11	JC	RB	"	"	✓			RB
998 P	E	"	46.47.81.83				6	4		742 11	JC	RB	"	"	✓			RB
999 P	E	"	45.46.83.85				7	3		7411	GG	RB	"	"	✓		↓	RB

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1000 P	E	6/25	44-45-85-87				13	4		742-11	SC	BR	6/23	MR	✓		VTDK	
1001 P	E	"	43-44-87-89				4	12		742-11	"	BR	6/23	MR	✓			
1002 P	E	"	42-43-89-91				8	6		742-11	"	BR	"	"	✓			
1003 P	E	"	41-42-91-93				5	4		742-11	"	BR	"	"	✓			
1004 P	E	"	40-41-93-95-96-99				26	7		742-11	"	BR	"	"	✓			
1005 P	E	"	38-39-96-97				5	7		742-11	"	BR	"	"	✓			
1006 P	E	"	37-38-97-99				8	4		"	"	BR	"	"	✓			
1007 P	E	"	36-37-99-101				7	7		"	"	BR	"	"	✓			
1008 P	E	"	35-36-101-103				7	6		"	"	BR	"	"	✓			
1009 P	E	"	34-35-103-105				8	6		"	"	BR	"	"	✓			
1010 P	E	"	33-34-105-107				6	3		"	"	BR	"	"	✓			
1011 P	E	"	32-33-107-109				7	4		"	"	BR	"	"	✓			
1012 P	E	"	31-32-109-111				6	5		"	"	BR	"	"	✓			
1013 P	E	"	30-31-111-113				5	9		"	"	BR	"	"	✓			
1014 P	E	"	29-30-113-115 28-117-27-119				28	6		"	"	BR	"	"	✓			
1015 P	E	"	26-27-119-121				7	12		"	"	BR	"	"	✓			
1016 P	E	"	25-26-119-123				7	4		"	"	BR	"	"	✓			
1017 P	E	"	24-25-123-125				5	6		"	"	BR	"	"	✓			
1018 P	E	"	23-24-125-127				5	7		"	"	BR	"	"	✓		↓	

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1019 P	E	6/25	27-23-27-129				7	4		742011	SC	RB	6/26	ML	/		VTOK	RB
1020 P	E	"	21-23-129-131				6	4		"	"	RB	6/26	/	/			RB
1021 P	E	"	20-21-131-133				6	4		"	"	RB	6/26	"	/			RB
1022 P	E	"	20-133		7E		4	3		"	"	RB	"	"	/			RB
1023 P	E	"	19-20-133-135				5	3		"	"	RB	"	"	/			RB
1024 P	E	"	18-19-135-137				6	4		"	"	RB	6/26	ML	/			RB
1025 P	E	"	17-18-137-139				7	4		"	"	RB	"	"	/			RB
1026 P	E	6/23	16-17-139-141				6	12		"	"	RB	"	"	/			RB
1027 P	E	6/25	15-16-141-143				7	4		"	"	RB	"	"	/			RB
1028 P	E	6/26	14-15-143-144				6	4		"	"	RB	"	"	/			RB
1029 P	E	"	13-14-144-145				8	4		"	"	RB	"	"	/			RB
1030 P	E	"	12-13-145-146				6	8		"	"	RB	"	"	/			RB
1031 P	E	6/26	131-654		7E		3	2		"	"	RB	"	"	/			RB
1032 P	E	"	12-146		10E		6	3		"	"	RB	"	"	/			RB
1033 P	E	6/25	50-75		4W		5	3		742011	SC	RB	"	"	/			RB
1034 P	E	"	44-87		6W		6	3		742-11	"	RB	"	"	/			RB
1035 P	E	6/26	10-11-12-146-147-149				25	4		"	"	RB	"	"	/			RB
1036 P	E	"	9-10-149-151				5	4		"	"	RB	"	"	/			RB
1037 P	E	"	8-9-151-153				5	5		"	"	RB	"	"	/			RB

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

INSTALLER: Comanco Environmental Corporation

YEAR: 2008

☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1038 P	E	6/26	78-153-155				5	8		74011	SC	BS	6/27	MR	/		VTOK	BS
1039 P	E	"	6-7-155-158				6	4		"	"	"	"	MR	/			
1040 P	E	"	5-6-158-160-4-162				28	4		"	"	"	"	"	/			
1041 P	E	6/25	261-175 C4-C43				16	3		"	"	"	"	MR	/			
1042 P	E	6/26	61-62-115-176 C44				20	3		"	"	"	"	"	/			
1043 P	E DS	"	~~177-180~~ 69-70-179			D215	6	2		"	"	"	"	"	/			
1044 P	E	"	~~180-181-176~~ C45 -179			225	10	2		"	"	"	"	MR	/			
1045 P	E	6/25	182-183-74-76 C46				12	2		74202	RR	"	"	"	/			
1046 P	E	"	80-82-185-186				6	3		74202	"	"	"	"	/			
1047 P	E	"	82-84-186-187 C47				8	3		"	"	"	"	"	/			
1048 P	E	"	84-86-187-188 C53				11	3		"	"	"	"	"	/			
1049 P	E	"	86-88-188-189 C53				6	2		"	"	"	"	"	/			
1050 P	E	"	88-90-189-190 C53				9	3		"	"	"	"	"	/			
1051 P	E	"	90-92-190-191 C53				7	3		"	"	"	"	"	/			
1052 P	E	"	92-94-191-192 C53				17	3		"	"	"	"	"	/			
1053 P	E	"	94-95-192-195 C53				6	3		"	"	"	"	"	/			
1054 P	E DS-191		C48		12.5		6	2		"	"	"	"	"	/			
1055 P	E		95-96-193-194 C55				45	2		"	"	"	"	"	/			
1056 P	E		96-98-194-195 C53				15	3		"	"	"	"	"	/		↓	

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

INSTALLER: Comanco Environmental Corporation

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2008

☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1057 P	E	6/25	195-C5-3		5W		2	2		7402	BR	BR	6/26	ML	/		VTDK	BR
1058 P	E	"	R5 196 18-100				7	14		"	"	BR	6/26	ML	/			BR
1059 P	E	"	116-197-102-100				4	3		"	"	BR	"	"	/			BR
1060 P	E	"	102-197		9E		2	2		"	"	BR	"	"	/			BR
1061 P	E	"	197-198-102-104				8	3		"	"	BR	"	"	/			BR
1062 P	E	"	198-C5-7		18W		4	2		"	"	BR	"	"	/			BR
1063 P	E	"	199-200-105-108				15	3		"	"	BR	"	"	/			BR
1064 P	E	"	200-201-108-110				7	3		"	"	BR	"	"	/			BR
1065 P	E	"	201-202-110-112				6	4		"	"	BR	"	"	/			BR
1066 P	E	"	202-C53-112				6	2		"	"	BR	"	"	/			BR
1067 P	E	"	202-203-112-114				5	6		"	"	BR	"	"	/			BR
1068 P	E	"	203-204-114-116				7	3		"	"	BR	"	"	/			BR
1069 P	E	"	204-205-116-118				5	3		"	"	BR	"	"	/			BR
1070 P	E	"	205-206-118-120				6	4		"	"	BR	"	"	/			BR
1071 P	E	"	206-207-120-122				6	4		"	"	BR	"	"	/			BR
1072 P	E	"	207-208-122-124				7	4		"	"	BR	"	"	/			BR
1073 P	E	"	208-209-124-126				5	4		"	"	BR	"	"	/			BR
1074 P	E	"	209-210-126-128				4	3		"	"	BR	"	"	/			BR
1075 P	E	"	210-211-128-130				5	4		"	"	BR	"	"	/			BR

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1076 P	E	6/25	211-212-130-132				6	6		7402	BR	BS	6/26	MR	✓		VTOL	
1077 P	E	"	22-059		138S 108N		2	2		"	"	BS	6/26	MR	✓			
1078 P	E	6/25	211-059		120N		3	2		"	"	[illegible]	"	"	✓			
1079 P	E	"	210-017		5W		2	2		7402	BR	[illegible]	"	"	✓			
1080 P	E	"	22-213-152-134				6	3		"	"	BS	"	"	✓			
1081 P	E	"	213-214-134-136				5	7		"	"	BS	"	"	✓			
1082 P	E	"	24-215-136-138				5	4		"	"	BS	"	"	✓			
1083 P	E	"	215-216-138-140				6	5		"	"	BS	"	"	✓			
1084 P	E	"	216-217-140-142				6	4		"	"	BS	"	"	✓			
1085 P	E	"	217-218-143-142				6	4		"	"	BS	"	"	✓			
1086 P	E	"	218-219-143-144				6	7		"	"	BS	"	"	✓			
1087 P	E	"	218-079-219				9	4		"	"	BS	"	"	✓			
1088 P	E	"	219-220-144-145-221-146				32	4		"	"	BS	"	"	✓			
1089 P	E	6/26	221-222-146-148				5	8		74202	GCM	BS	6/26	MR	✓			
1090 P	E	"	222-223-148-150				6	4		"	"	BS	"	"	✓			
1091 P	E	6/25	[illegible]-261-C				8	2		7402	RR	BS	"	"	✓			
1092 P	E	6/25	175-176		2N		4	3		7402	RR	BS	"	"	✓			
1093 P	E	6/25	179-180		2N		4	4		7402	RR	BS	"	"	✓			
1094 P	E	"	182-183	C46	2N		4	3		"	"	PS	"	"	/	/	↓	

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1095 P	E	6/25	186-187	C47	2N		2	2		74202	RR	RR	6/27	MR	✓		VTOK	RR
1096 P	E	6/25	186-187	C48	2N		3	2		"	"	RR	"	"	"			RR
1097 P	E	6/25	[illegible]	C55	(DS)		7	2		"	"	RR	"	"	"			RR
1098 P	E	6/27	195-196	C-56			8	2		"	"	RR	"	"	"			RR
1099 P	E	"	197-198	C-57	7N		8	2		"	"	RR	"	"	"			RR
1100 P	E	"	198-C57		16N		2	2		"	"	RR	"	"	"			RR
1101 P	G	"	202-205	C58	2N		3	2		"	"	RR	"	"	"			RR
1102 P	E	"	203-C58	DS-55	11N		7	2		"	"	RR	"	"	"			RR
1103 P	E	"	219	C59	6N	DS-49	6	2		"	"	RR	"	"	"			RR
1104 P	E	"	213-214	C-60	2N		6	2		"	"	RR	"	"	"			RR
1105 P	E	"	215-216	C61	2N		3	2		"	"	RR	"	"	"			RR
1106 P	G	"	218-219	C-74	3N		4	2		"	"	RR	"	"	"			RR
1107 P	E	"	221-222	C-75	2N		3	2		"	"	RR	"	"	"			RR
1108 P	E	"	50-51	C24	49S		8	2		74211	RR	RR	"	"	"			RR
1109 P	E	"	50-C24		33S		3	2		"	"	RR	"	"	"			RR
1110 P	E	"	50-51-C24		53S		4	2		"	"	RR	"	"	"			RR
1111 P	E	"	50-51-C24		13S		6	5	2	"	"	RR	"	"	"			RR
1112 P	E	"	50-51-C24		3DS		6	3		"	"	RR	"	"	"			RR
1113 P	E	"	50-C24		77S		4	5		"	"	RR	"	"	"		↓	RR

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation [x] PRIMARY [ ] SECONDARY [ ] OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1114 P	E	6/25	50-C24		45S		5	3		74211	JC		6/27	MR	1		VTDK	
1115 P	E	"	50-C24	DS3			6	2		"	"		6/27	MR	/			
1116 P	E	"	51-C24	DS4			6	2		"	"		"	"	/			
1117 P	E	"	52-C25	DS38	10S		1	"		7419	RG		"	"	/			
1118 P	E	"	52.		5W		3	4		74211	JC		"	"	/			
1119 P	E	"	50-51.	C29			3	4		"	"		"	"	/			
1120 P	E	"	46-47.	C25	8S		11	5		7411	RG		"	"	/			
1121 P	E	"	46		9W		2	2		"	"		"	"	/			
1122 P	E	"	47-C25		44S		6	3		"	"		"	"	/			
1125 P	E	6/26	46-47-225		142S		10	6		74201	JC		"	"	/			
1123 P	E	"	46-47-C25		35S		10	3		"	"		"	"	/			
1125 P	E	"	46-47-C25		30S		3	2		"	"		"	"	/			
1126 P	E	"	46-47-C25		44S		3	2		"	"		"	"	/			
1127 P	E	"	46-C-25		25N	DS7	6	2		"	"		"	"	/			
1128 P	E	"	44-C27		2N	DS8	6	2		"	"		"	"	/			
1124 P	E	"	43-44-C27		8N		4	2		"	"		"	"	/			
1130 P	E	"	43-C27	DS9	12S		6	2		"	"		"	"	/			
1131 P	E	"	43-C27		142N		2	2		"	"		"	"	/			
1132 P	E	"	43-44-C27		177N		6	2		"	"		"	"	/		V	

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2009

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1133 P	E	6/25	43.44	C27			6	2		7402	JC		6/25	MR	✓		VTOK	
1134 P	E	6/25	40.41	C28			3	2		7402	"		6/25	"	✓			
1135 P	E	6/25	41 C28		50N		6	2		"	"		"	"	✓			
1136 P	E	6/26	40. C28	DS11	233		6	2		74-11	RG		"	"	✓			
1137 P	E	"	40.41 C28		308N		6	2		74-11	RG		"	"	✓			
1138 P	E	"	40.41. C28		-		5	2		?	"		"	"	✓			
1139 P	E	"	40.41. C28		615		7	2		"	"		"	"	✓			
1140 P	E	"	34.35. C29		55		8	2		"	"		"	"	✓			
1141 P	E	"	34.35. C29		865		5	2		"	"		"	"	✓			
1142 P	E	"	34.35. C29		1335		6	2		"	"		"	"	✓			
1143 P	E	"	34. C.29		2275		2	2		"	"		"	"	✓			
1144 P	E	"	34. C29		2485	DS13	6	2		"	"		"	"	✓			
1145 P	E	"	34.35	C29	365		3	2		"	"		"	"	✓			
1146 P	E	"	35. C29		585		2	2		"	"		"	"	✓			
1147 P	E	"	35. C.29		385		2	2		"	"		"	"	✓			
1148 P	E	"	35. C.29		6N	DS12	6	3		"	"		"	"	✓			
1149 P	E	"	31. C.30		32N	DS18	6	3		"	"		"	"	✓			
1150 P	E	"	30. C.30		464S	DS.19	6	3		"	"		"	"	✓			
1151 P	E	"	DS.30. C.30		226S	DS17	6	3		"	"		"	"	✓		↓	

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1152 P	E	6/26	30 31 C30		330'		5	4		74-11	DS		6/27	MR	✓		VTDL	
1153 P	E	"	30-31-C30				13	2		74-11	"		6/27	MR	✓			
1154 P	E	"	30-31-C30		55' S		11	3		"	"		"	"	✓			
1155 P	E	6/25	30-31-C30		45		8	3		"	"		"	"	✓			
1156 P	E	"	26-27 C31				7	3		"	"		"	"	✓			
1157 P	E	"	26-27-C31		57'		8	3		"	"		"	"	✓			
1158 P	E	"	26-27-C31		100' S		2	2		"	"		"	"	✓			
1159 P	E	6/26	26-27-C31		133' S		4	3		"	"		"	"	✓			
1160 P	E	"	26-27	C31	138' S		3	2		"	"		"	"	✓			
1161 P	E	"	26-27-C31		180' S		5	3		"	"		"	"	✓			
1162 P	E	"	26-27-	C31	208' S		6	3		"	"		"	"	✓			
1163 P	E	"	26-27	C31	232' S		6	3		"	"		"	"	✓			
1164 P	E	"	26-27	C31	257' S		8	3		"	"		"	"	✓			
1165 P	E	"	26-27	C31	333' S		6	2		"	"		"	"	✓			
1166 P	E	"	26-27-C31		357' S		6	3		"	"		"	"	✓			
1167 P	E	"	26 C-31		405 S	[redacted]	6	3		"	"		"	"	✓			
1168 P	E	"	27 C-31		18N		6	3		7-20-11	BE		"	"	✓			
1169 P	E	"	23-C-41		28N		6	3		"	"		"	"	✓			
1170 P	E	"	22-C41		378S		6	2		"	"		"	"	✓		√	

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Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation [/] PRIMARY [ ] SECONDARY [ ] OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1171 P	E	6/26	22-23	C41	252S		12	3		7411	RG	RB	6/27	MR	/		VTDK	RB
1172 P	E	6/26	22-23	C41	191S		2	2		"	RG	RB	"	"	/			RB
1173 P	E	"	22-23	C41	157S		4	2		"	"	RB	"	"	/			RB
1174 P	E	"	22-23	C41	117S		4	3		"	"	RB	"	"	/			RB
1175 P	E	"	22-23	C41	39S		4	2		"	"	RB	"	"	/			RB
1176 P	E	"	22-23	C41	2'S		3	3		"	"	RB	"	"	/			RB
1177 P	E	"	22-23	C41	7S		3	3		"	"	RB	"	"	/			RB
1178 P	E	"	16-17	C42	45S		8	3		"	"	RB	"	"	/			RB
1179 P	E	"	16-17	C42	-		6	4		"	"	RB	"	"	/			RB
1180 P	E	"	16-17	C42	7S		3	2		"	"	RB	"	"	/			RB
1181 P	E	"	16-17	C42	43'N		10	3		"	"	RB	"	"	/			RB
1182 P	E	"	17	C42	42'N		2	2		"	"	RB	"	"	/			RB
1183 P	E	"	17	C42	5'N		2	2		"	"	RB	"	"	/			RB
1184 P	E	6/25	16-17	C42	29'N		12	4		"	"	RB	"	"	/			RB
1185 P	E	"	16	C42	DS-25	38'S	6	2		"	"	RB	"	"	/			RB
1186 P	E	"	C	49		40'N	6	2		"	"	RB	"	"	/			RB
1187 P	E	6/26	13	C49		50'N	2	2		"	"	RB	"	"	/			RB
1188 P	E	"	12	C49		65'N	2	2		"	"	RB	"	"	/			RB
1189 P	E	"	12-13	C49		106'N	14	3		"	"	RB	"	"	/		↓	RB

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☒ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1190 P	E	6/26	13.C49		2ft N		2	2		74-11	BG	BG	6/27	MR	/		VTOK	BG
1191 P	E	6/26	12 C49		29ft N		6	2		74-11	BG	BG	"	"	/			BG
1192 P	E	"	12 C49		30ft N		6	2		"	"	BG	"	"	/			BG
1193 P	E	"	12.13. C49				16	2		"	"	BG	"	"	/			BG
1194 P	E	"	12.13 C.49		45		3	3		"	"	BG	"	"	/			BG
1195 P	E	"	8.9. C.50		43		4	4		"	"	BG	"	"	/			BG
1196 P	E	"	8.9. C50		43ft N		5	4		"	"	BG	"	"	/			BG
1197 P	E	"	8.9. C.50				4	3		"	"	BG	"	"	/			BG
1198 P	E	"	8.9.C50		25ft S		2	2		"	"	BG	"	"	/			BG
1199 P	E	"	8.9.C.50	DS 29	28ft S		6	3		"	"	BG	"	"	/			BG
1200 P	E	"	89.C50		30ft S		10	3		"	"	BG	"	"	/			BG
1201 P	E	"	8.C.50		6ft N		2	2		"	"	BG	"	"	/			BG
1202 P	G	"	C.50. DS. 30		18ft N		6	2		"	"	BG	"	"	/			BG
1203 P	G	"	5. C.50		49ft N		6	2		"	"	BG	"	"	/			BG
1204 P	G	"	5.6. C.50		100ft N		3	3		"	"	BG	"	"	/			BG
1205 P	G	"	5.6. C.50		148ft N		9	3		"	"	BG	"	"	/			BG
1206 P	G	"	5.6. C.50		38ft S		5	2		"	"	BG	"	"	/			BG
1207 P	G	"	5.6. C.50		3ft S		3	3		"	"	BG	"	"	/			BG
1208 P	G	"	5.6. C50		23ft S		7	2		"	"	BG	"	"	/		√	BG

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2009

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1209 P	E	6/26	5·6·C52		145		7	3		74H	BG		6/27	MP	✓		VTOL	BB
1210 P	E	6/26	5·6·C52		355		3	3		74H	BG		6/27	〃	✓			BB
1211 P	E	〃	2·3·C16		33		3	3		74H	JC		〃	〃	✓			BB
1212 P	E	〃	2·3·C16		265		4	3		74H	〃		〃	〃	✓			BB
1213 P	E	〃	2·3·C16				5	4		74H	JC		〃	〃	✓			BB
1214 P	E	〃	2·3·C16		385		6	2		〃	〃		〃	〃	✓			BB
1215 P	E	〃	2·3·C16		152N		9	2		〃	〃		〃	〃	✓			BB
1216 P	E	〃																
1217																		
1218																		
1219																		
1220																		
1221																		
1222																		

other page

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2003

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1217 P	E	6/26	4-162		5E		10	4		79011	JC	BB	6/27	WR	✓		VTOL	BB
1218 P	E	"	3-4-162-164				6	4		"	"	BB	6/27	"	✓			BB
1219 P	E	"	1-2-3-164-166-168				27	5		"	"	BB	"	"	✓			BB
1220 P	E	"	338-1-168-170				4	6		"	"	BB	"	"	✓			BB
1221 P	E	"	83-85	C63			8	2		"	"	BB	"	"	✓			BB
1222 P	E	"	83-85-C63				7	3		74012	PC	BB	"	"	✓			BB
1223 P	E	"	83-84	C63	24S		9	4		"	"	BB	"	"	✓			BB
1224 P	E	"	84-85-C63-86				9	4		"	"	BB	"	"	✓			BB
1225 P	E	"	84-C63				6	2		"	"	BB	"	"	✓			BB
1226 P	E	"	84-86	C63			6	4		"	"	BB	"	"	✓			BB
1227 P	E	"	84-86-C63		43S		6	4		"	"	BB	"	"	✓			BB
1228 P	E	"	84-86-C63		55N		6	4		"	"	BB	"	"	✓			BB
1229 P	E	"	86-C63		20N		6	3		"	"	BB	"	"	✓			BB
1230 P	E	"	79-81	C62	[redacted]	157S	7	3		"	"	BB	"	"	✓			BB
1231 P	E	"	79-81-C62		132S		8	3		"	"	BB	"	"	✓			BB
1232 P	E	"	79-81-C62		86S	[redacted]	6	3		"	"	BB	"	"	✓			BB
1233 P	E	"	81-C62	DS74	25S	DS74	7	2		"	"	BB	"	"	✓			BB
1234 P	E	"	79-C62		13S		4	2		"	"	BB	"	"	✓			BB
1235 P	E	"	79-81-C62		45		3	3		"	"	BB	"	"	✓		↓	BB

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Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

INSTALLER: Comanco Environmental Corporation

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2008

☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1236 P	E	6/26	62-63-64				3	3		74dd2	PL		6/27	MR	✓		VTOK	
1237 P	E	6/26	63-64-65				4	2		74dd2	PC		6/27	MR	✓			
1238 P	E	"	64-65-66				5	3		"	"		"	"	✓			
1239 P	E	"	65-66-67				4	2		"	"		"	"	✓			
1240 P	E	"	66-67-68				13	2		"	"		"	"	✓			
1241 P	E	"	67-68-69				4	2		"	"		"	"	✓			
1242 P	E	"	68-69-70				4	2		"	"		"	"	✓			
1243 P	E	"	69-70-71				4	2		"	"		"	"	✓			
1244 P	E	"	70-71-72				4	2		"	"		"	"	✓			
1245 P	E	"	71-72-73				5	2		"	"		"	"	✓			
1246 P	E	"	72-73-74				4	2		"	"		"	"	✓			
1247 P	E	"	73-74-75				10	2		"	"		"	"	✓			
1248 P	E	"	74-75-76				4	2		"	"		"	"	✓			
1249 P	E	"	75-76-77				3	2		"	"		"	"	✓			
1250 P	E	"	76-77-78				4	2		"	"		"	"	✓			
1251 P	E	"	77-78-79				4	2		"	"		"	"	✓			
1252 P	E	"	78-79-80				4	2		"	"		"	"	✓			
1253 P	E	"	79-80-81				4	2		"	"		"	"	✓			
1254 P	E	"	80-81-82				4	3		"	"		"	"	✓		↓	

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					QA ID
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	
1255 P	E	6/26	81-82-83				4	3		74202	GG	BS	6/27	MR	✓		VTDK	BS
1256 P	E	"	86-87-88				4	3		74202	GG	BS	"	"	✓			"
1257 P	E	"	87-88-89				5	2		"	"	BS	"	"	✓			"
1258 P	E	"	92-93-94				4	2		"	"	BS	"	"	✓			"
1259 P	E	"	94-93		9W		4	2		"	"	BS	"	"	✓			"
1260 P	E	"	93-94-95				4	3		"	"	BS	"	"	✓			"
1261 P	E	6/26	228-229-150-152				28	5		74202	GG	BS	6/27	MR	✓			BS
1262 P	E	6/26	232-233-154				6	4		74202	GG	BS	6/27	MR	✓			BS
1263 P	E	6/26	233-234-157-154				12	4		74202	GG	BS	6/27	MR	✓			BS
1264 P	E	6/26	234-235-157				5	4		74202	GG	BS	"	"	✓			"
1265 P	E	6/26	235-236-159-156				8	5		74202	GG	BS	"	"	✓			"
1266 P	E	6/26	237-238-161-159-236				25	4		74202	GG	BS	"	"	✓			"
1267 P	E	6/26	238-239-163				5	4		74202	GG	BS	"	"	✓			"
1268 P	E	6/26	239-240-163-160				12	5		74202	GG	BS	"	"	✓			"
1269 P	E	6/26	240-241-163				5	4		74202	GG	BS	"	"	✓			"
1270 P	E	6/26	241-242-163				11	4		74202	GG	BS	"	"	✓			"
1271 R	E DAP(2)	6/26	242-C62		16E		6	2		"	"	BS	"	"	✓			"
1272 T	E		165-243-244				15	2		"	"	BS	"	"	✓			"
1273 P	E	6/26	242-243-165				14	4		74202	GG	BS	"	"	✓		↓	"

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1261 P	E	6/26	228.150.152.229				26	5		74202	GGM	BS	6/27	MR	✓		VTOK	BS
1262 P	E	"	154.252.233				6	4		"	"	BS	"	"				
1263 P	E	"	154.253.254.157				12	4		"	"	BS						
1264 P	E	"	234.255.157				5	4		"	"	BS						
1265 P	E	"	235.236.157.156.158				6	5		"	"	BS						
1266 P	E	"	236.237.159.238.161				25	4		"	"	BS						
1267 P	E	"	238.259.161				5	4		"	"	BS						
1268 P	E	"	239.240.161.160				10	4		"	"	BS						
1269 P	E	"	240.241.163				6	4		"	"	BS						
1270 P	E	"	241.242.163.165				12	4		"	"	BS						
1271 P	E	"	242.241		14E		7	2		"	"	BS						
1272 P	E	"	165.242.243				3	16		"	"	BS						
1273 P	E	"	240.163		10W		7	4		"	"	BS						
1274 P	E	"	243.244.165				6	3		"	"	BS	6/27	MR	✓		VTOK	BS
1275 P	E	"	244.165.167.245				14	3		"	"	BS	"	"	✓			BS
1276 P	E	"	245.246.167				5	5		"	"	BS	"	"	✓			BS
1277 P	E	"	246.167				6	2		"	"	BS	"	"	✓			BS
1278 P	E	"	92.C1		35W	OS 75	6	2		"	"	BS	"	"	✓			BS
1279 P	E	"	96.97.98				6	3		"	"	BS	"	"	✓			BS

Duplicate

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1274 P	E	6/26	243-244-105				5	4		74202	GG	BS	6/26	MR	✓		VTOK	BS
1275 P	E	6/26	244-167-245				12	3		74202	GG	BS	6/26	MR	✓			BS
1276 P	E	6/26	245-246-167	167			6	4		74202	GG	BS	6/26	MR	✓			BS
1277 P	E - DS	6/26	167-CL7		BN		5	2		"	"	BS	6/26	MR	✓		↓	BS
~~1278~~																		
1279 P	E	6/26	96-97-98				5	4		74012	RG	BS	6/26	MR	✓		VTOK	BS
1280 P	E	6/26	97-98-99				6	4		74012	RG	BS	6/26	MR	✓			BS
1281 P	E	6/26	98-99-100				4	18		74012	RG	BS	6/26	MR	✓			BS
1282 P	E	6/26	99-100				4	5		74012	RG	BS	6/26	MR	✓			BS
1283 P	E	6/26	99-100-101				3	2		74012	RG	BS	6/26	MR	✓			BS
1284 P	E	6/26	100-101-102				7	4		74012	RG	BS	6/26	MR	✓			BS
1285 P	E	6/26	61-102-103				4	3		74012	RG	BS	6/26	MR	✓			BS
1286 P	E	6/26	102-103-104				4	4		74012	RG	BS	6/26	MR	✓			BS
1287 P	E	6/26	103-104-105				4	5		74012	RG	BS	6/26	MR	✓			BS
1288 P	E	6/26	104-105-106				5	8		74012	RG	BS	6/26	MR	✓			BS
1289 P	E	6/26	105-106-107				4	3		74012	RG	BS	6/26	MR	✓			BS
1290 P	E	6/26	106-107-108				4	4		74012	RG	BS	6/26	MR	✓			BS
1291 P	E	6/26	107-108-109				5	3		74012	RG	BS	6/26	MR	✓			BS
1292 P	E	6/26	108-109-110				4	5		74202	GG	BS	6/26	MR	✓		↓	BS

Duplicate

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2006

INSTALLER: Comanco Environmental Corporation [x] PRIMARY [ ] SECONDARY [ ] OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1293 P	E	6/26	109-110-111				4	3		74012	RG	BS	6/26	MR	/		VTDL	RT
1294 P	E	6/26	110-91-112				4	4		74012	RG	BS	6/26	MR	/			RT
1295 P	E	6/26	111-112-113				4	3		74012	RG	BS	6/26	MR	/			RT
1296 P	E	6/26	118-119-120				4	5		74012	RG	BS	6/27	MR	/			RT
1297 P	E	6/26	119-120-126				4	4		74012	RG	BS	6/27	MR	/			RT
1298 P	E	6/26	120-121-122				3	4		74012	RG	BS	6/27	MR	/			RT
1299 P	E	6/26	121-122-123				4	4		74012	RG	BS	6/27	MR	/			RT
1300P	E	6/26	122-123-124				3	4		74012	RG	BS	6/27	MR	/			RT
1301P	E	6/26	125-124-125				3	3		74012	RG	BS	6/27	MR	/			RT
1302P	E	6/26	124-125-126				3	3		74012	RG	BS	6/27	MR	/			RT
1303P	E	6/26	125-126-127				4	4		74012	RG	BS	6/27	MR	/			RT
1304P	E	6/26	128-129-130				4	4		74012	RG	BS	6/27	MR	/			RT
1305P	E	6/26	129-130-131				9	3		74012	PC	BS	6/27	MR	/			RT
1306P	E	6/26	130-131-130				3	4		74012	PC	BS	6/27	MR	/			RT
1307P	E	6/26	131-132-133				4	3		74012	PC	BS	6/27	MR	/			RT
1308P	E	6/26	133-134-132				3	4		74012	PC	BS	6/27	MR	/			RT
1309 P	E	DPR-69 6/26	133-134		540		9	3		74012	PC	BS	6/27	MR	/			RT
1310 P	E	6/26	133-134-135				3	3		74012	PC	BS	6/27	MR	/			RT
1311 P	E	6/26	135-136-134				4	5		74012	PC	BS	6/27	MR	/			RT

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2008

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1312 P	E		135·136·137				5	9		74012	BC	BS	6/27	MR	/		VTOL	BS
1313 P	E	6/26	136·137·138				3	4		74012	BC	BS	6/27	MR	/			BS
1314 P	E	6/26	139·138·C5 7				3	3		74012	BC	BS	6/27	MR	/			BS
1315 P	E	6/25	141·142·140				4	3		74202	RR	BS	6/27	MR	/			BS
1316 P	E	6/25	141·142·143				7	3		74202	RR	BS	6/27	MR	/			BS
1317 P	E	6/26	170·171·358·359				4	13		74011	JC	BS	〃	〃	/			BS
1318 P	E	6/26	359·342·171·C3				5	3		74011	JC	BS	〃	〃	/			BS
1319 P	E	6/26	343·344·173 174				4	4		74011	JC	BS	〃	〃	/			BS
1320	→	#	Skipped															
1321 P	E		44		10N	1E	2	2		〃	〃	BS	〃	〃	/		VTOL	BS
1322 P	E		2·3·C·16				2	2		〃	〃	BS	〃	〃	/			BS
1323 P	E		3·C·16		94S		3	2		〃	〃	BS	〃	〃	/			BS
1324 P	E		2·3·C·16		135		4	2		〃	〃	BS	〃	〃	/			BS
1325 P	E	6/27	66·170		42		18	4		742G2	BC	BS	〃	〃	/			BS
132C P	E	6/26	171·170·172		37S		5	4		〃	GG	BS	〃	〃	/			BS
1327 P	E	〃	170·C72		28S		8	2		〃	〃	BS	〃	〃	/			BS
1328 P	E	〃	171·C73		23S		3	2		〃	〃	BS	〃	〃	/			BS
1329 P	E	6/26	171·172·173				5	5		74202	GG	BS	〃	〃	/			BS
1330 P	E	〃	245·C65		40E		2	2		〃	〃	BS	〃	〃	/			BS

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISONMINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1331 P	E	6/26	246-C65		5E		2	2		74202	GG	BB	6/27	MR	✓		VTOL	BB
1332 P	E	6/26	248-249		8E		5	3		74202	GG	BB	"	"	✓			BB
1333 P	E	"	248-249		26E		13	4		"	"	BB	"	"	✓			BB
1334 P	E	"	"		68E		6	2		"	"	BB	"	"	✓			BB
1335 P	E	6/26	253-254		24N		4	9		74202	GG	BB	"	"	✓			BB
1336 P	E	"	253-254 C68				2	2		"	"	BB	"	"	✓			BB
1337 P	E	"	250-251-C67				4	2		"	"	BB	"	"	✓			BB
1338 P	E	"	250-C67		10W		4	2		"	"	BB	"	"	✓			BB
1339 P	E	6/27	248-249		0W		7	5		74202	RR	BB	"	"	✓			BB
1340 P	E	"	245-246		0W		2	3		"	"	BB	"	"	✓			BB
1341 P	E	"	241-242 C64				4	3		"	"	BB	"	"	✓			BB
1342 P	E	"	237-238 C67				4	2		"	"	BB	"	"	✓		↓	BB
1343																		

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

Geosyntec consultants

DENISON MINES

REPAIR SUMMARY LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☑ PRIMARY ☐ SECONDARY ☐ OTHER

REPAIR NO./ CODE[1]	REP. TYPE[3]	DATE	LOCATION[2]				SIZE[2]			WELDER ID		QA ID	NON-DESTRUCTIVE TESTING					
			SEAM	PANEL	DIST.	OFFSET	LENGTH	WIDTH	DIA.	MACH. NO.	OP. ID		DATE	OP. ID	PASS	FAIL	ACTION	QA ID
1343 P	E	6/29	235.28		Tie in		2	2		742012	RG	BS	6/29	AG	✓		VTOL	
1344 P	E	6/29	C30.31		[redacted]	33' N	25	2.5		4	RG	BS	✓	AG	✓		✓	
1345 P	E	6/29	85/86		10E		3	3		1	RG	BS	✓	AG	✓		✓	

NOTES: (1) REPAIR NUMBERS SHALL BE NUMBERED SEQUENTIALLY, REPAIR CODES: P = PATCH C = CAP S = ANCHOR TRENCH EXTENSION (SKIRT) DS = DESTRUCTIVE SAMPLE G = GRIND & WELD T = TOPPING ALONG FUSION SEAM R = RECONSTRUCTION (2) LOCATION & SIZE SHALL BE INDICATED IN FEET (3) REAIR TYPES: E = EXTRUSION F = FUSION

APPENDIX F-10

DESTRUCTIVE TEST LOGS AND LABORATORY TEST RESULTS

Geosyntec consultants

DENISONMINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

GCL Sample	SAMPLE DATA							FIELD DATA							LABORATORY DATA								
	D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
1	1		F	1-2	22'W	00075-37	GGM	105	108	152	X		10 OCT	JS	12 OCT	128	117	157	X			JS
71.7	2		F	4-5	16'E	75-26	RR	130	129	167	X		11 OCT	JS	12 OCT	125	131	154	X			JS
	3		F	7-8	15W	75-26	RR	116	107	155	X		11 OCT	JS	15 OCT	129	119	163	X			JS
	4		F	12-13	1'W	75-37	GGM	102	101	148	X		11 OCT	JS	15 OCT	108	123	153	X			JS
2	5		F	16-17	1'W	75-26	RR	108	107	160	X		11 OCT	JS	15 OCT	128	124	155	X			JS
79.3	6		F	10-20	2'S	75-37	GGM	118	130	156	X		16 OCT	JS	17 OCT	124	122	149	X			JS
	7		F	29-30	1'N	75-25	MG	129	130	194	X		16 OCT	JS	17 OCT	118	126	162	X			JS
	8		F	33-34		75-31	GGM	125	128	191	X		16 OCT	JS	17 OCT	120	111	158	X			JS
168.8	9		F	35-36	8'N	75-26	RR	122	126	157	X		17 OCT	JS	19 OCT	118	122	147	X			JS
	10		F	39	40 4'N	75-31	GGM	126	128	173	X		17 OCT	JS	19 OCT	125	125	161	X			JS
3	11		F	38	39 6'S	75-25	MG	113	114	161	X		17 OCT	JS	19 OCT	128	119	155	X			JS
	12		F	40-41	3'S	75-31	GGM	118	122	165	X		17 OCT	JS	19 OCT	132	122	162	X			JS
	13		F	41	42 4'N	75-31	GGM	126	126	171	X		18 OCT	JS	22 OCT	130	119	160	X			JS
70.2	14		F	42-43	5'N	75-25	MG	127	122	171	X		18 OCT	JS	22 OCT	129	119	157	X			JS
4	15		F	43	44 5'N	75-26	RR	131	129	178	X		18 OCT	JS	22 OCT	129	130	155	X			JS

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION ALL FUSION WELDING MACHINES ARE DOUBLE TRACK

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

GCL Sample %MC

SAMPLE DATA							FIELD DATA						LABORATORY DATA							
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
16	3'	S	44-47		75-31	GGM	130	125	176	X		18 OCT	JS	22 OCT	131	123	157	X			JS
17	3'	E	45-47		75-26	RR	134	133	165	X		18 OCT	JS	22 OCT	135	131	157	X			JS
5 18	1'	S	45-46		75-25	MG	122	121	221	X		18 OCT	JS	22 OCT	117	113	158	X			JS
91.3 19	3'	E	46-48		75-26	RR	135	143	178	X		18 OCT	JS	22 OCT	134	131	150	X			JS
20	3'	N	48-49		75-31	GGM	116	129	160	X		19 OCT	JS	22 OCT	133	120	150	X			JS
6 21	1'	S	49-50		75-26	RR	134	128	180	X		19 OCT	JS	22 OCT	116	121	147	X			JS
22	130'	S	50-51		75-25	MG	120	116	185	X		19 OCT	JS	25 OCT	117	111	157	X			JS
95.0 23	1'	S	51-52		75-31	GGM	131	123	177	X		19 OCT	JS	25 OCT	108	106	151	X			JS
24	10'	N	52-53		75-26	RR	134	131	177	X		19 OCT	JS	25 OCT	129	129	157	X			JS
25	42'	N	53-54		75-26	RR	130	134	183	X		20 OCT	JS	25 OCT	122	126	153	X			JS
114.1 26	105'	N	53-54		75-26	RR	117	122	182	X		20 OCT	JS	25 OCT	110	130	154	X			JS
7 27	3'	N	54-55		75-31	GGM	123	120	177	X		20 OCT	JS	25 OCT	112	113	150	X			JS
28	375'	N	55-56		75-25	MG	129	122	175	X		20 OCT	JS	25 OCT	117	114	151	X			JS
29	3'	S	56-57		75-31	GGM	121	119	172	X		20 OCT	JS	25 OCT	105	117	154	X			JS
129.0 8 30	3'	N	57-58		75-25	MG	131	133	173	X		20 OCT	JS	25 OCT	127	119	153	X			JS

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION ALL FUSION WELDING MACHINES ARE DOUBLE TRACK

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

	SAMPLE DATA						FIELD DATA						LABORATORY DATA							
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
GCL % MC																				
31	5'	N	58-59		75-31	GGM	117	114	152	X		25 OCT	JS	26 OCT	127	116	154	X			JS
32	5'	N	59-60		75-26	RR	121	119	159	X		25 OCT	JS	26 OCT	124	127	149	X			JS
33	5'	N	60-61		75-25	MG	117	118	155	X		25 OCT	JS	26 OCT	125	116	153	X			JS
34	11'	S	61-62		75-31	GGM	121	118	156	X		25 OCT	JS	26 OCT	130	113	156	X			JS
35	11'	S	62-63		75-26	RR	115	109	148	X		25 OCT	JS	26 OCT	109	115	150	X			JS
36	155'	N	59-60		75-26	RR	123	118	157	X		25 OCT	JS	26 OCT	117	131	154	X			JS
37	205'	N	60-61		75-25	MG	135	137	198	X		25 OCT	JS	26 OCT	125	115	156	X			JS
38	3'	N	61-62		75-31	GGM	137	130	196	X		25 OCT	JS	26 OCT	120	113	154	X			JS
39	117'	S	62-63		75-26	RR	121	124	155	X		25 OCT	JS	26 OCT	118	122	151	X			JS
40	63'	N	63-64		75-26	RR	126	114	157	X		25 OCT	JS	26 OCT	126	127	148	X			JS
41	138'	S	64-65		75-25	MG	118	120	164	X		25 OCT	JS	26 OCT	127	122	156	X			JS
42	3'	N	65-66		75-31	GGM	130	142	201	X		25 OCT	JS	26 OCT	129	121	154	X			JS
43	2'	S	66-67		75-50	JC	123	112	152	X		25 OCT	JS	26 OCT	122	126	154	X			JS
44	2'	S	67-68		75-25	MG	119	115	147	X		25 OCT	JS	26 OCT	123	118	158	X			JS
45	130	S	68-69		75-31	GGM	124	127	154	X		25 OCT	JS	26 OCT	131	126	158	X			JS

74.3 (9) 62.4 (10) 61.9 (11)

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION ALL FUSION WELDING MACHINES ARE DOUBLE TRACK

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

GCL %MC

SAMPLE DATA							FIELD DATA							LABORATORY DATA							
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
46	216	N	69-70	75-26	RR		128	125	150	X		25 OCT	JS	26 OCT	125	128	153	X			JS
47	136	S	70-71	75-25	MG		123	111	157	X		25 OCT	JS	26 OCT	121	125	156	X			JS
48	175	S	71-72	75-50	DC		127	132	158	X		25 OCT	JS	26 OCT	130	125	157	X			JS
49	207	S	72-73	75-31	GGM		114	123	153	X		25 OCT	JS	26 OCT	114	121	155	X			JS
50	75	S	69-70	75-26	RR		120	121	151	X		25 OCT	JS	26 OCT	123	128	154	X			JS
51	E	4'W	18-74	015	RR		110	/	151	X		30 OCT	JS	5 NOV	111	/	149	X			JS
52	5'	E	77-78	75-25	MG		124	120	185	X		30 OCT	JS	5 NOV	128	124	158	X			JS
53	5'	W	81-82	75-25	MG		123	117	175	X		30 OCT	JS	5 NOV	114	114	150	X			JS
54	3'	E	85-86	75-26	RR		116	120	177	X		30 OCT	JS	5 NOV	121	117	149	X			JS
55	3'	E	90-91	75-31	GGM		125	125	158	X		30 OCT	JS	5 NOV	126	127	144	X			JS
56	196	N	102-103	75-37	DC		123	131	185	X		31 OCT	JS	5 NOV	121	123	160	X			JS
57	10	S	92-102	75-25	MG		135	127	169	X		31 OCT	JS	5 NOV	121	117	136	X			JS
58	2	S	103-104	75-31	GGM		127	125	187	X		31 OCT	JS	5 NOV	126	113	151	X			JS
59	3	N	104-105	75-26	RR		135	135	198	X		02 NOV	JS	6 NOV	124	119	153	X			JS
60	3	N	105-106	75-37	DC									6 NOV	125	51	156		X		JS

76.82 | 13 | 74.9 | 146 | 14 | 124 | 15

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION DS-51 EXTRUSION WELD

ALL FUSION WELDING MACHINES ARE DOUBLE TRACK

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

SAMPLE DATA							FIELD DATA							LABORATORY DATA								
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
60A	45	N	105-106	75-37	DC		119	117	183	X		07NOV	JS	09NOV	123	113	158	X		X	JS
60B	15	S	102-103	75-37	DC		131	139	190	X		07NOV	JS	09NOV	135	125	165	X		X	JS

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

	SAMPLE DATA						FIELD DATA						LABORATORY DATA							
	D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
9/0MC	61	71	S	113-114		75-26	RR	127	126	186	X		01 NOV	JS	6 NOV	116	115	148	X			JS
119	62	3	S	115-116		75-25	MG	139	136	187	X		01 NOV	JS	6 NOV	126	126	148	X			JS
	63	3	S	117-118		75-37	DC	123	124	189	X		01 NOV	JS	6 NOV	127	131	142	X			JS
16	64	3	N	106-121		75-31	GGM	129	125	194	X		02 NOV	JS	6 NOV	129	113	155	X			JS
	65	9	S	121-122		75-25	MG	138	132	196	X		01 NOV	JS	6 NOV	125	126	155	X			JS
113	66	3	N	122-123		75-26	RR	132	126	193	X		02 NOV	JS	6 NOV	120	131	155	X			JS
	67	7	S	123-124		75-37	DC	129	133	191	X		01 NOV	JS	6 NOV	130	128	139	X			JS
17	68	17	N	124-125		75-31	GGM	121	123	182	X		03 NOV	JS	6 NOV	120	120	157	X			JS
	69	96	N	125-134		75-31	GGM	127	122	182	X		05 NOV	JS	9 NOV	125	125	160	X			JS
74	70	116	S	120-131		75-26	RR	130	136	197	X		05 NOV	JS	9 NOV	121	116	153	X			JS
	71	47	S	131-132		75-31	GGM	123	124	171	X		05 NOV	JS	9 NOV	123	124	151	X			JS
10	72	1	N	139-140		75-37	DC	121	121	181	X		06 NOV	JS	9 NOV	117	119	160	X			JS
	73	1	N	145-146		75-26	RR	125	118	168	X		06 NOV	JS	9 NOV	123	120	155	X			JS
68	74	101	S	140-144		75-37	DC	134	124	173	X		06 NOV	JS	9 NOV	127	131	159	X			JS
19	75	56	N	138-141		75-25	MG	121	117	170	X		06 NOV	JS	9 NOV	125	123	165	X			JS

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION ALL FUSION WELDING MACHINES ARE DOUBLE TRACK

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT — PROJECT NO.: SC0349 — TASK NO.: 02 / 03

DESCRIPTION: Cell 4A — YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

SAMPLE DATA							FIELD DATA						LABORATORY DATA							
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
76	30	S	142-143	75-25	MG		128	126	179	X		06NOV	JS	13NOV	132	126	152	X			JS
20 77	39	S	143-147	75-37	DC		122	118	174	X		08NOV	JS	13NOV	126	120	151	X			JS
91% 78	171	N	147-148	75-26	RR		134	136	183	X		08NOV	JS	13NOV	123	132	152	X			JS
79	136	S	148-149	75-25	MG		130	118	180	X		08NOV	JS	13NOV	118	117	155	X			JS
80	25	N	149-150	75-37	DC		123	120	173	X		08NOV	JS	13NOV	129	113	151	X			JS
81	40	SN	150-151	75-26	RR		126	127	175	X		08NOV	JS	13NOV	121	131	148	X			JS
21 82	79	S	153-154	75-26	RR		132	132	172	X		08NOV	JS	13NOV	124	121	147	X			JS
64% 83	28	S	155-156	75-26	RR		129	127	190	X		08NOV	JS	13NOV	123	114	148	X			JS
84	43	N	151-158	75-31	GGM		130	127	197	X		10NOV	JS	14NOV	127	124	166	X			JS
64% 85	55	N	158-159	75-25	MG		132	134	196	X		10NOV	JS	14NOV	128	120	169	X			JS
86	55	N	159-160	75-26	RR		139	129	193	X		10NOV	JS	14NOV	123	140	170	X			JS
22 87	136	S	160-161	75-31	GGM		120	120	188	X		10NOV	JS	14NOV	120	118	172	X			JS
88	3	S	161-162	75-25	MG		130	128	199	X		10NOV	JS	16NOV	124	119	160	X			AS
89	3	E	160-161	75-26	RR		141	140	191	X		10NOV	JS	14NOV	136	141	156	X			AS
90	166	S	162-170	75-31	GGM		120	121	170	X		13NOV	JS	16NOV	124	117 JAC	157 JAC	X			JS

119 160

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: JAC

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ☐ ppi

EXTRUSION: PEEL: 70 SHEAR: 120 ☐ psi

%MC

SAMPLE DATA							FIELD DATA						LABORATORY DATA							
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
91	6	W	162-170	75-26	RR		142	149	195	X		13NOV	JS	16NOV	135	136	149	X			JS
92	16	S	171-172	75-26	RR		130	123	192	X		13NOV	JS	16NOV	120	125	155	X			JS
93	5	N	172-173	75-37	DC		116	118	177	X		13NOV	JS	16NOV	126	113	161	X			JS
94	65	S	169-178	75-25	MG		125	120	167	X		13NOV	JS	16NOV	119	124	155	X			JS
95	29	S	179-181	75-31	GGM		112	119	173	X		13NOV	JS	16NOV	124	114	161	X			JS
96	3	N	174-185	75-31	GGM		126	138	202	X		15NOV	JS	21NOV	122	114	150	X			JS
97	100	S	185-186	75-26	RR		126	124	203	X		15NOV	JS	21NOV	114	114	151	X			JS
98	46	N	186-187	75-25	MG		130	126	205	X		15NOV	JS	21NOV	126	129	158	X			JS
99	30	S	187-191	75-37	DC		140	136	206	X		15NOV	JS	21NOV	133	129	161	X			JS
100	295	N	73-201	75-26	RR		127	137	197	X		16NOV	JS	21NOV	125	117	152	X			JS
101	3	N	201-202	75-26	RR		147	133	200	X		16NOV	JS	21NOV	132	127	150	X			JS
102	100	N	202-203	75-31	GGM		129	127	200	X		16NOV	JS	21NOV	123	118	154	X			JS
103	10	N	203-204	75-25	MG		123	128	196	X		16NOV	JS	21NOV	117	126	152	X			JS
104	10	N	204-205	75-37	DC		136	123	184	X		16NOV	JS	21NOV	124	128	154	X			JS
105	10	S	204-205	75-37	DC		115	109	190	X		16NOV	JS	21NOV	122	129	151	X			JS

23
70%
88
24
25
100
26
88

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: JAC

Geosyntec consultants

DENISONMINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

	SAMPLE DATA							FIELD DATA						LABORATORY DATA								
	D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
0/0MC																						
27	106	3	S	205-206		75-31	GGM	122	135	195	X		17NOV	JS	21NOV	125	111	148	X			JS
102	107	3	S	206-207		75-37	DC	123	126	196	X		17NOV	JS	21NOV	112	118	146	X			JS
	108	3	S	207-208		75-25	MG	131	125	198	X		17NOV	JS	21NOV	120	123	156	X			JS
28	109	3	S	208-209		75-26	RR	130	116	194	X		17NOV	JS	21NOV	121	126	153	X			JS
134	110	3	S	209-210		75-31	GGM	127	118	189	X		18NOV	JS	21NOV	113	115	148	X			JS
	111	40	N	210-211		75-31	GGM	122	120	170	X		18NOV	JS	04DEC	118	119	160	X			JS
	112	112	N	211-212		75-25	MG	131	106	174	X		18NOV	JS	04DEC	116	129	162	X			JS
29	113	173	N	212-213		75-26	RR	121	111	145	X		18NOV	JS	04DEC	114	125	157	X			JS
83	114	141	N	213-214		75-37	DC	115	105	150	X		18NOV	JS	04DEC	107	127	153	X			JS
	115	37	N	214-215		75-50	EV	134	136	198	X		18NOV	JS	04DEC	129	124	148	X			JS
	116	10	N	215-216		75-31	GGM	124	127	192	X		18NOV	JS	04DEC	122	116	153	X			JS
30	117	11	S	216-217		75-31	GGM	108	113	150	X		19NOV	JS	04DEC	128	131	153	X			JS
72	118	4	S	217-218		75-25	MG	126	108	194	X		19NOV	JS	04DEC	109	127	151	X			JS
	119	20	N	218-219		75-37	DC	141	137	196	X		19NOV	JS	04DEC	134	127	160	X			JS
	120	20	N	219-220		75-26	RR	140	131	193	X		19NOV	JS	04DEC	128	129	159	X			JS

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

SC0349 - Destructive Test Log.xls

REVIEWED BY: JAC

Geosyntec consultants

DENISONMINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

	SAMPLE DATA						FIELD DATA							LABORATORY DATA							
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
31 121	4	S	220	221	75-31	GGM	143	121	192	X		19NOV	JS	04DEC	121	124	150	X			JS
151 122	165	N	214	215	75-50	EV	132	123	191	X		18NOV	JS	04DEC	127	123	156	X			JS
123	17'	N	199	232	75-31	G.G.M.	126	119	189	X		21NOV	JS	04DEC	122	118	155	X			JS
124	35	S	193	222	75-26	R.R.	142	141	219	X		21NOV	JS	04DEC	122	129	154	X			JS
32 125	15	N	222	223	75-25	M.G.	130	141	194	X		21NOV	JS	04DEC	131	127	154	X			JS
126	3	N	234	236	75-31	G.G.M.	133	126	188	X		21NOV	JS	04DEC	116	120	147	X			JS
92 127	6	N	237	241	75-25	M.G.	130	129	185	X		21NOV	JS	04DEC	123	122	152	X			JS
128	8	N	224	230	75-37	D.C.	132	122	183	X		21NOV	JS	04DEC	112	121	155	X			JS
33 129	20	N	228	238	75-31	G.G.M.	127	120	186	X		21NOV	JS	04DEC	123	128	151	X			JS
130	39'	S	239	242	75-37	DC	148	149	215	X		28NOV	JS	05DEC	135	125	163	X			JS
131	89'	S	242	243	25-25	MG	136	145	214	X		28NOV	JS	05DEC	129	128	156	X			JS
132	179'	S	243	244	75-26	RR	129	133	209	X		28NOV	JS	05DEC	132	126	158	X			JS
34 133	265'	S	249	245	75-37	DC	129	137	205	X		28NOV	JS	05DEC	132	127	155	X			JS
134	353'	S	245	246	75-31	GG	136	136	208	X		28NOV	JS	05DEC	126	120	160	X			JS
135	373'	S	246	252	75-25	MG	140	138	206	X		28NOV	JS	05DEC	132	126	156	X			JS

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: JAC

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: 2007

INSTALLER: Comanco Environmental Corporation ☐ PRIMARY ■ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ■ INSTALLER ■ LABORATORY ■ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ■ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☐ psi

SAMPLE DATA							FIELD DATA							LABORATORY DATA								
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
136	253	254	8	N	75-31	GGM	132	127	193	X		30NOV	JS	10DEC	104	122	155	X			JAC
137	254	255	90	N	75-25	MG	131	134	193	X		30NOV	JS	10DEC	122	127	152	X			JAC
138	255	256	111	N	75-26	RR	135	135	198	X		30NOV	JS	10 DEC	124	128	155	X			JAC
139	256	257	18	S	75-37	DC	132	124	188	X		30NOV	JS	10DEC	130	136	153	X			JAC
140	263	264	7	N	75-25	MG	128	136	186	X		30NOV	JS	10DEC	113	124	145	X			JAC
141	258	291	7	N	75-31	GGM	122	123	196	X		05DEC	JS	10 DEC	124	116	151	X			JAC
142	289	292	8	N	75-37	DC	130	131	199	X		05DEC	JS	10 DEC	123	118	145	X			JAC
143	291	293	13	S	75-25	MG	129	127	194	X		05DEC	JS	10 DEC	132	124	152	X			JAC
144	293	295	4	N	75-37	DC	124	121	195	X		05DEC	JS	10 DEC	132	119	149	X			JAC
145	297	298	5	S	75-25	MG	131	133	200	X		05DEC	JS	10 DEC	122	117	153	X			JAC

35 36 37

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: JAC

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: DU-10 YEAR: 2008
PRIMARY: ☐ SECONDARY: ☒ OTHER: ☐ 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA						
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	RE-TEST	QA ID
DS- 146	-	F	P-15	12'W6'N	75-28	GGM	130	132	156	P	15-Apr	CS	18-Apr	140	130	147	P	-	CS
DS- 147	-	F	P-83	12'W8'N	75-28	GGM	125	132	162	P	15-Apr	CS	18-Apr	135	132	144	P	-	CS
DS- 148	-	E	206/Cap-N	134'S7'E	742001	JC	132	-	155	P	15-Apr	CS	18-Apr	140	-	138	P	-	CS
DS- 149	-	E	Cap-S/60	137S'9'E	742001	JC	129	-	161	P	15-Apr	CS	18-Apr	128	-	141	P	-	CS
DS- 150	-	F	290/301	84	75-37	DC	114	113	183	P	16-Apr	CS	18-Apr	129	112	151	P	-	CS
DS- 151	-	F	305/306	71	00-25	MG	121	119	184	P	16-Apr	CS	18-Apr	125	121	153	P	-	CS
DS- 152	-	F	309/310	93	75-37	DC	125	124	180	P	16-Apr	CS	18-Apr	134	124	156	P	-	CS
DS- 153	-	F	315/316	66	00-25	MG	120	124	186	P	16-Apr	CS	18-Apr	128	115	153	P	-	CS
DS- 154	-	F	320/321	94	75-37	DC	108	116	176	P	16-Apr	CS	18-Apr	125	125	155	P	-	CS
DS- 155	-	F	313/Cap-W	95'W5'S	75-28	GGM	119	126	166	P	18-Apr	CS	22-Apr	129	126	142	P	-	CS
DS- 156	-	F	304/Cap-E	101	75-28	GGM	119	119	166	P	18-Apr	CS	22-Apr	131	130	145	P	-	CS
DS- 157	-	F	233 Cap-N	104S'5'W	74-11	GGM	123	126	170	P	19-Apr	CS	22-Apr	121	121	136	P	-	CS
DS- 158	-	F	270/Cap-S	113'S7'W	74-11	GGM	126	134	172	P	19-Apr	CS	22-Apr	138	130	141	P	-	CS
DS- 159		F	221/CAP10	152'N	75-28	GGM	123	124	185	P	25-Apr	CS	28-Apr	127	125	154	P	-	CS

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA						
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	RE-TEST	QA ID
DP 1	-	F	1/2	11	75-29	RG	103	114	162	P	28-Apr	CS	30-Apr	113	120	151	P	-	CS
DP 2	-	F	2/3	129	75-28	DC	105	107	163	P	28-Apr	CS	30-Apr	110	114	150	P	-	CS
DP 3	-	F	3/4	196	75-53	AG	104	106	164	P	28-Apr	CS	30-Apr	123	109	152	P	-	CS
DP 4	-	F	4/5	296	75-29	RG	112	105	152	P	28-Apr	CS	30-Apr	106	120	151	P	-	CS
DP 5	-	F	5/6	401	75-28	DC	119	111	169	P	28-Apr	CS	30-Apr	113	121	151	P	-	CS
DP 6	-	F	6/7	495	75-53	AG	116	110	166	P	28-Apr	CS	30-Apr	118	122	157	P	-	CS
DP 7	-	F	6/7	12	75-53	AG	98	98	160	P	28-Apr	CS	30-Apr	116	112	151	P	-	CS
DP 8	-	F	7/8	400	75-50	HO	112	121	165	P	28-Apr	CS	30-Apr	121	126	151	P	-	CS
DP 9	-	F	8/9	306	75-28	DC	107	112	163	P	28-Apr	CS	30-Apr	113	117	147	P	-	CS
DP 10	-	F	9/10	205	75-53	AG	113	116	160	P	28-Apr	CS	30-Apr	120	124	148	P	-	CS
DP 11	-	F	10/11	123	75-50	HO	114	113	164	P	28-Apr	CS	30-Apr	126	119	147	P	-	CS
DP 12	-	F	11/12	212	75-29	RG	112	109	167	P	28-Apr	CS	30-Apr	120	111	150	P	-	CS
DP 13	-	F	11/12	526	75-29	RG	99	107	161	P	28-Apr	CS	30-Apr	119	102	151	P	-	CS
DP 14	-	F	12/13	443	75-28	DC	97	109	166	P	28-Apr	CS	30-Apr	107	117	151	P	-	CS
DP 15	-	F	13/14	354	75-53	AG	105	126	155	P	28-Apr	CS	30-Apr	108	132	150	P	-	CS
DP 16	-	F	14/15	248	75-50	HO	121	110	164	P	28-Apr	CS	30-Apr	128	127	151	P	-	CS
DP 17	-	F	15/16	149	75-29	RG	113	100	168	P	28-Apr	CS	30-Apr	112	105	154	P	-	CS
DP 18	-	F	16/17	258	75-28	DC	114	114	170	P	28-Apr	CS	30-Apr	110	124	150	P	-	CS
DP 19	-	F	17/18	354	75-53	AG	109	121	161	P	28-Apr	CS	30-Apr	127	119	149	P	-	CS
DP 20	-	F	18/19	451	75-50	HO	123	120	166	P	28-Apr	CS	30-Apr	131	125	151	P	-	CS
DP 21	-	F	19/20	526	75-29	RG	101	105	162	P	28-Apr	CS	30-Apr	109	116	150	P	-	CS

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

ML

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DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: X SECONDARY: ☐ OTHER: ☐ 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA							LABORATORY DATA							
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL		DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL		RE-TEST	QA ID
DP 22	-	F	19/20	10	75-29	RG	102	104	156	P		28-Apr	CS	30-Apr	108	115	150	P		-	CS
DP 23	-	F	20/21	415	75-50	HO	117	118	161	P		28-Apr	CS	30-Apr	136	119	155	P		-	CS
DP 24	-	F	21/22	351	75-53	AG	110	115	167	P		28-Apr	CS	30-Apr	126	123	157	P		-	CS
DP 25	-	F	22/23	257	75-28	DC	99	100	154	P		28-Apr	CS	30-Apr	131	117	155	P		-	CS
DP 26	-	F	23/24	129	75-29	RG	97	96	156	P		29-Apr	CS	2-May	136	125	149	P		-	CS
DP 27	-	F	23/24	548	75-29	RG	108	105	158	P		29-Apr	CS	2-May	129	132	153	P		-	CS
DP 28	-	F	24/25	548	75-53	AG	116	113	158	P		29-Apr	CS	2-May	124	120	150	P		-	CS
DP 29	-	F	25/26	546	75-50	HO	98	92	151		F	29-Apr	CS	Failed in the field-PEEL						29 A&B	CS
DP 30	-	F	26/27	548	75-28	DC	108	103	158	P		29-Apr	CS	2-May	128	131	151	P		-	CS
DP 31	-	F	27/28	548	75-29	RG	108	110	163	P		29-Apr	CS	2-May	127	120	154	P		-	CS
DP 32	-	F	28/29	548	75-53	AG	99	107	153	P		29-Apr	CS	2-May	121	125	149	P		-	CS
DP 33	-	F	29/30	549	75-50	HO	113	118	159	P		29-Apr	CS	2-May	127	113	153	P		-	CS
DP 34	-	F	30/31	550	75-28	DC	132	115	178	P		29-Apr	CS	2-May	117	135	153	P		-	CS
DP 35	-	F	30/31	8	75-28	DC	101	105	179	P		29-Apr	CS	2-May	112	117	151	P		-	CS
DP 36	-	F	31/32	550	75-29	RG	107	111	182	P		29-Apr	CS	2-May	129	126	151	P		-	CS
DP 37	-	F	32/33	550	75-53	AG	123	121	183	P		29-Apr	CS	2-May	131	122	156	P		-	CS
DP 38	-	F	33/34	550	75-50	HO	137	110	182	P		29-Apr	CS	2-May	123	111	156		F	38 A&B	CS
DP 39	-	F	34/35	550	75-28	DC	108	120	178	P		29-Apr	CS	2-May	121	124	157	P		-	CS
DP 40	-	F	35/36	551	75-29	RG	115	116	183	P		29-Apr	CS	2-May	130	125	157	P		-	CS
DP 29A	-	F	25/26	534	75-50	HO	122	129	180	P		30-Apr	CS	2-May	121	114	152	P		-	CS
DP 29B	-	F	20/21	10	75-50	HO	121	124	170	P		30-Apr	CS	2-May	133	108	148	P		-	CS

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA						
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	RE-TEST	QA ID
DP 41	-	F	36/37	550	75-53	AG	115	125	177	P	29-Apr	CS	2-May	133	120	155	P	-	CS
DP 42	-	F	37/38	545	75-50	HO	156	121	177	P	29-Apr	CS	2-May	115	123	151	P	-	CS
DP 43	-	F	38/39	549	75-29	RG	114	115	184	P	29-Apr	CS	2-May	117	115	147	P	-	CS
DP 44	-	F	39/40	550	75-53	AG	110	101	170	P	29-Apr	CS	2-May	101	112	147	P	-	CS
DP 45	-	F	40/41	551	75-28	DC	115	118	171	P	29-Apr	CS	2-May	124	137	149	P	-	CS
DP 46	-	F	41/42	546	75-29	RG	109	104	176	P	29-Apr	CS	2-May	125	118	156	P	-	CS
DP 47	-	F	42/43	550	75-53	AG	105	112	169	P	29-Apr	CS	2-May	134	122	157	P	-	CS
DP 48	-	F	43/44	551	75-28	DC	117	109	161	P	29-Apr	CS	2-May	125	118	153	P	-	CS
DP 49	-	F	43/44	6	75-28	DC	108	108	160	P	29-Apr	CS	2-May	124	115	152	P	-	CS
DP 50	-	F	44/45	143	75-29	RG	109	110	201	P	30-Apr	CS	2-May	115	117	151	P	-	CS
DP 51	-	F	45/46	197	75-53	AG	140	131	197	P	30-Apr	CS	2-May	118	112	154	P	-	CS
DP 52	-	F	46/47	248	75-28	DC	117	112	201	P	30-Apr	CS	2-May	117	114	160	P	-	CS
DP 53	-	F	47/48	298	75-50	HO	136	130	197	P	30-Apr	CS	2-May	110	135	160	P	-	CS
DP 54	-	F	48/49	351	75-29	RG	110	112	190	P	30-Apr	CS	2-May	116	123	156	P	-	CS
DP 55	-	F	49/50	396	75-53	AG	122	120	185	P	30-Apr	CS	2-May	131	125	150	P	-	CS
DP 56	-	F	50/51	443	75-28	DC	117	117	170	P	30-Apr	CS	2-May	106	115	149	P	-	CS
DP 57	-	F	51/52	491	75-50	HO	126	111	189	P	30-Apr	CS	2-May	110	126	154	P	-	CS
DP 58	-	F	52/53	547	75-28	DC	124	123	187	P	30-Apr	CS	2-May	126	113	151	P	-	CS
DP 59	-	F	53/54	516	75-28	DC	112	108	172	P	2-May	CS	7-May	107	115	153	P	-	CS
DP 38A	-	F	33/34	538	75-50	HO	122	121	165	P	2-May	CS	7-May	121	142	156	P	-	CS
DP 38B	-	F	29/30	10	75-50	HO	116	114	176	P	2-May	CS	7-May	115	123	155	P	-	CS

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA						
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	RE-TEST	QA ID
DP 60	-	F	53/54	137	75-28	DC	100	103	171	P	2-May	CS	7-May	118	114	154	P	-	CS
DP 61	-	F	54/55	133	75-03	HO	110	105	166	P	2-May	CS	7-May	104	116	151	P	-	CS
DP 62	-	F	55/56	91	75-11	AG	104	119	176	P	2-May	CS	7-May	131	111	157	P	-	CS
DP 63	-	F	56/57	10	75-28	DC	114	113	156	P	2-May	CS	7-May	114	117	158	P	-	CS
DP 64	-	F	58/60	124	75-03	HO	115	122	173	P	2-May	CS	7-May	125	119	155	P	-	CS
DP 65	-	F	56/63	8'W	75-28	DC	122	121	171	P	2-May	CS	7-May	125	119	146	P	-	CS
DP 66	-	F	61/62	493	75-11	AG	118	115	173	P	2-May	CS	7-May	125	126	154	P	-	CS
DP 67	-	F	62/64	332	75-10	RG	112	117	178	P	2-May	CS	7-May	122	124	156	P	-	CS
DP 68	-	F	64/66	122	75-11	AG	126	122	203	P	2-May	CS	7-May	114	123	156	P	-	CS
DP 69	-	F	66/68	122	75-03	HO	134	134	201	P	2-May	CS	7-May	129	124	153	P	-	CS
DP 70	-	F	68/70	175	75-11	AG	132	119	199	P	2-May	CS	7-May	128	127	157	P	-	CS
DP 71	-	F	70/72	431	75-10	RG	114	118	195	P	2-May	CS	7-May	123	124	158	P	-	CS
DP 72	-	F	72/74	503	75-11	AG	125	128	188	P	2-May	CS	7-May	128	129	159	P	-	CS
DP 73	-	F	74/76	408	75-03	HO	129	135	172	P	2-May	CS	7-May	130	125	161	P	-	CS
DP 74	-	F	76/78	58	75-10	RG	128	129	177	P	2-May	CS	7-May	117	119	160	P	-	CS
DP 75	-	F	78/80	247	75-11	AG	121	114	191	P	2-May	CS	7-May	122	121	155	P	-	CS
DP 76	-	F	79/80	151	75-28	DC	133	123	204	P	2-May	CS	7-May	134	132	163	P	-	CS
DP 77	-	F	81/83	30	75-10	RG	112	104	186	P	2-May	CS	7-May	136	130	169	P	-	CS
DP 78	-	F	83/85	120	75-03	HO	123	125	184	P	3-May	CS	7-May	124	116	167	F	78 A&B	CS
DP 79	-	F	85/87	297	75-11	AG	117	126	186	P	3-May	CS	7-May	123	130	167	P	-	CS
DP 80	-	F	88/89	375	75-10	RG	109	111	184	P	3-May	CS	7-May	112	109	163	P	-	CS

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

ML

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA							LABORATORY DATA							
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL		DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL		RE-TEST	QA ID
DP 81	-	F	90/92	30	75-03	HO	127	114	184	P		3-May	CS	7-May	131	118	161		F	81A&B	CS
DP 82	-	F	92/94	516	75-11	AG	113	111	174	P		3-May	CS	7-May	129	99	160		F	82A&B	CS
DP 83	-	F	93/95	393	75-11	AG	128	119	174	P		3-May	CS	7-May	141	126	160	P		-	CS
DP 84	-	F	95/96	263	75-10	RG	108	110	176	P		3-May	CS	7-May	123	116	160	P		-	CS
DP 85	-	F	96/98	148	75-03	HO	122	106	171	P		3-May	CS	7-May	131	118	155	P		-	CS
DP 86	-	F	98/99	10	75-10	RG	109	94	165		F	3-May	CS	Failed in the field-PEEL						86 A&B	CS
DP 87	-	F	40/95	9'W	75-28	DC	119	113	160	P		3-May	CS	7-May	129	112	148	P		-	CS
DP 88	-	F	101/102	18'W	75-28	DC	115	117	170	P		3-May	CS	7-May	122	125	156	P		-	CS
DP 89	-	F	100/102	108	75-11	AG	121	129	177	P		3-May	CS	7-May	138	128	160	P		-	CS
DP 90	-	F	102/104	297	75-03	HO	123	124	170	P		3-May	CS	7-May	134	122	161	P		-	CS
DP 91	-	F	104/106	184	75-10	RG	106	105	170	P		3-May	CS	7-May	122	120	153	P		-	CS
DP 92	-	F	106/108	48	75-11	AG	111	114	191	P		3-May	CS	7-May	130	122	153	P		-	CS
DP 93	-	F	107/109	63	75-03	HO	122	119	188	P		3-May	CS	7-May	127	123	153	P		-	CS
DP 94	-	F	110/112	54	75-10	RG	123	128	186	P		3-May	CS	7-May	128	126	161	P		-	CS
DP 95	-	F	112/114	139	75-11	AG	120	116	186	P		3-May	CS	7-May	114	121	161	P		-	CS
DP 96	-	F	114/116	254	75-03	HO	123	125	181	P		3-May	CS	7-May	117	128	153	P		-	CS
DP 97	-	F	116/118	395	75-11	AG	113	114	183	P		5-May	CS	7-May	126	122	153	P		-	CS
DP 98	-	F	117/119	204	75-10	RG	123	123	178	P		5-May	CS	7-May	121	126	152	P		-	CS
DP 99	-	F	27/119	19'W	75-28	DC	139	125	174	P		5-May	CS	7-May	109	139	150	P		-	CS
DP 86A	-	F	97/99	20	75-10	RG	109	106	162	P		5-May	CS	7-May	118	113	157	P		-	CS
DP 86B	-	F	98/100	54	75-10	RG	108	107	160	P		5-May	CS	7-May	118	126	158	P		-	CS

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

ML

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA						
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	RE-TEST	QA ID
DP 100	-	F	119/121	25	75-11	AG	126	122	185	P	5-May	CS	7-May	132	132	162	P	-	CS
DP 101	-	F	121/123	80	75-10	RG	120	121	182	P	5-May	CS	7-May	118	111	155	P	-	CS
DP 102	-	F	123/125	138	75-11	AG	126	117	180	P	5-May	CS	7-May	119	122	156	P	-	CS
DP 103	-	F	125/127	191	75-10	RG	114	116	183	P	5-May	CS	7-May	115	111	156	P	-	CS
DP 104	-	F	127/129	243	75-11	AG	110	108	175	P	5-May	CS	7-May	111	118	152	P	-	CS
DP 105	-	F	129/131	295	75-11	AG	111	109	173	P	5-May	CS	7-May	123	118	151	P	-	CS
DP 106	-	F	131/133	350	75-10	RG	124	114	176	P	5-May	CS	7-May	119	115	153	P	-	CS
DP 107	-	F	133/135	402	75-11	AG	120	111	172	P	5-May	CS	7-May	121	121	153	P	-	CS
DP 108	-	F	136/137	6	75-10	RG	116	110	180	P	5-May	CS	7-May	126	124	153	P	-	CS
DP 109	-	F	138/140	21	75-10	RG	117	117	179	P	5-May	CS	7-May	113	112	156	P	-	CS
DP 110	-	F	141/143	134	75-11	AG	113	112	158	P	6-May	CS	9-May	123	120	153	P	-	CS
DP 111	-	F	143/144	28	75-10	RG	105	109	164	P	6-May	CS	9-May	123	104	154	P	-	CS
DP 112	-	F	144/145	105	75-11	AG	124	101	164	P	6-May	CS	9-May	116	117 ~~Peel~~	152	F	112A&B	CS
DP 113	-	F	145/146	180	75-10	RG	101	101	172	P	6-May	CS	9-May	101	113	156	P	-	CS
DP 114	-	F	146/148	263	75-11	AG	115	106	163	P	6-May	CS	9-May	124	118	149	P	-	CS
DP 115	-	F	11/147	14'W	75-28	DC	120	129	163	P	6-May	CS	9-May	132	128	140	P	-	CS
DP 116	-	F	148/150	342	75-10	RG	123	118	174	P	6-May	CS	9-May	110	118	154	P	-	CS
DP 117	-	F	149/150	16'W	75-29	GG	112	114	173	P	6-May	CS	9-May	129	125	146	P	-	CS
DP 118	-	F	150/151	422	75-11	AG	117	121	163	P	6-May	CS	9-May	120	117	151	P	-	CS
DP 119	-	F	152/154	479	75-10	RG	107	110	157	P	6-May	CS	9-May	122	110	148	P	-	CS
DP 120	-	F	154/156	411	75-11	AG	107	107	161	P	6-May	CS	9-May	120	116	154	P	-	CS

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

ML

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: X SECONDARY: ☐ OTHER: ☐ 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA							
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL		DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL		RE-TEST	QA ID
DP 121	-	F	156/159	81	75-11	AG	106	104	162	P		6-May	CS	9-May	113	123	150	P		-	CS ✓
DP 122	-	F	159/160	Tee	75-11	AG	117	123	157	P		6-May	CS	9-May	135	119	148	P		-	CS ✓
DP 123	-	F	160/162	203	75-10	RG	122	108	159	P		6-May	CS	9-May	126	121	153	P		-	CS ✓
DP 124	-	F	2/166	13'W	75-28	DC	122	122	161	P		6-May	CS	9-May	124	123	146	P		-	CS ✓
DP 125	-	F	166/168	74	75-11	AG	120	117	179	P		6-May	CS	9-May	116	116	151	P		-	CS ✓
DP 126	-	F	168/170	49	75-28	DC	115	110	164	P		6-May	CS	9-May	127	129	154	P		-	CS ✓
DP 127	-	F	175/176	120	75-28	DC	112	112	160	P		7-May	CS	12-May	119	118	154	P		-	CS ✓
DP 128	-	F	176/177	119	75-11	AG	112	113	167	P		7-May	CS	12-May	127	115	148	P		-	CS ✓
DP 129	-	F	177/178	Tee	75-11	AG	106	108	155	P		7-May	CS	12-May	126	114	150	P		-	CS ✓
DP 130	-	F	184/185	116	75-10	RG	106	110	157	P		7-May	CS	12-May	126	129	155	P		-	CS ✓
DP 131	-	F	192/193	117	75-11	AG	114	107	160	P		7-May	CS	12-May	124	123	155	P		-	CS ✓
DP 132	-	F	193/194	115	75-28	DC	106	104	156	P		7-May	CS	12-May	112	121	151	P		-	CS ✓
DP 133	-	F	194/195	117	75-10	RG	111	110	158	P		7-May	CS	12-May	123	125	151	P		-	CS ✓
DP 78A	-	F	83/85	90	75-03	HO	124	132	191	P		7-May	CS	12-May	122	124-~~Peel~~	162		F	78A2	CS ✓
DP 78B	-	F	83/85	145	75-03	HO	129	123	177	P		7-May	CS	12-May	132	131-~~Peel~~	163		F	78B2	CS ✓
DP 81A	-	F	90/92	16	75-03	HO	123	115	180	P		7-May	CS	12-May	138	128	160	P		-	CS ✓
DP 81B	-	F	90/92	45	75-03	HO	122	122-~~Peel~~	191		F	7-May	CS	Failed in the field-PEEL						81B2	CS
DP 82A	-	F	92/94	515	75-11	AG	119	114-~~Peel~~	181		F	7-May	CS	Failed in the field-PEEL						82A2	CS
DP 82B	-	F	92/94	472	75-11	AG	134	123	195	P		7-May	CS	12-May	127	123	167	P		-	CS ✓
DP 134	-	F	195/196	6	75-28	DC	100	102	158	P		8-May	CS	12-May	127	117	144	P		-	CS ✓
DP 135	-	F	196/197	8	754-10	RR	112	113	156	P		8-May	CS	12-May	129	116	154	P		-	CS ✓

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

ML

Geosynthec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA						
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	RE-TEST	QA ID
DP 136	-	F	197/198	8	75-28	DC	117	117	163	P	8-May	CS	12-May	117	118	151	P	-	CS ✓
DP 137	-	F	207/208	9	754-11	GG	123	114	177	P	8-May	CS	12-May	118	109	159	F	137A&B	CS ✓
DP 138	-	F	210/211	10	754-10	RR	118	117	162	P	8-May	CS	12-May	123	122	154	P	-	CS ✓
DP 139	-	F	78/184	14	75-29	JC	113	121	164	P	8-May	CS	12-May	127	129	149	P	-	CS ✓
DP 81B2	-	F	90/92	6	75-03	HO	121	123	185	P	8-May	CS	12-May	129	122	161	P	-	CS ✓
DP 82A2	-	F	85/87	10	75-11	AG	116	113	185	P	8-May	CS	12-May	116	130	157	P	-	CS ✓
DP 140	-	F	104/198	12	75-29	JC	124	116	149	P	10-May	CS	15-May	126	118	140	P	-	CS ✓
DP 141	-	F	218/219	71	75-28	DC	114	114	190	P	10-May	CS	13-May	119	104	141	P	-	CS ✓
DP 142	-	F	222/223	77	754-10	RR	129	126	179	P	10-May	CS	13-May	120	116	152	P	-	CS ✓
DP 143	-	F	229/230	67	754-11	GG	124	125	185	P	10-May	CS	13-May	126	125	156	P	-	CS ✓
DP 144	-	F	234/235	67	754-10	RR	119	139	190	P	10-May	CS	13-May	139	131	153	P	-	CS ✓
DP 145	-	F	239/240	63	754-10	RR	122	110	189	P	10-May	CS	13-May	118	122	155	P	-	CS ✓
DP 146	-	F	244/245	57	754-10	RR	111	114	186	P	10-May	CS	13-May	119	110	153	P	-	CS ✓
DP 147	-	F	248/249	57	75-28	DC	103	112	186	P	10-May	CS	13-May	109	109	128	P	-	CS ✓
DP 148	-	F	253/254	72	75-28	DC	113	112	172	P	10-May	CS	13-May	118	118	147	P	-	CS ✓
DP 149	-	F	258/259	65	754-11	GG	115	116	169	P	10-May	CS	13-May	122	124	153	P	-	CS ✓
DP 150	-	F	145/220	13'W	75-28	DC	126	119	164	P	10-May	CS	13-May	119	119	123	P	-	CS ✓
DP 151	-	F	165/243	9'N	75-28	DC	115	117	168	P	10-May	CS	13-May	121	118	138	P	-	CS ✓
DP 112A	-	F	144/145	92	75-11	AG	116	118	174	P	10-May	CS	13-May	120	121	149	P	-	CS ✓
DP 112B	-	F	144/145	118	75-11	AG	105	112	169	P	10-May	CS	13-May	104	114	154	P	-	CS ✓
DP 78A2	-	F	83/85	99	75-03	HO	136	125	183	P	12-May	CS	15-May	138	118	167	P	-	CS ✓

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

ML

Geosyntec consultants

DESTRUCTIVE TEST LOG

PROJECT: Denison Mines White Mesa Mill
LOCATION: Blanding, Utah PROJECT NO.: SC-0349 TASK NO.: 02/03
DESCRIPTION: Cell 4A YEAR: 2008
PRIMARY: [X] SECONDARY: [ ] OTHER: [ ] 60 mil CONTRACTOR: COMANCO

SAMPLE DATA							FIELD DATA						LABORATORY DATA						
DS NO	TRACK (1) Single	TRACK (1) Double	LOCATION Seam	LOCATION Dist. (ft)	MACH NO.	OP ID	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	DATE SAMPLED (day/mo)	QA ID	DATE OF RESULTS	AVG PEEL PPI/PSI Inside	AVG PEEL PPI/PSI Outside	AVG SHEAR PPI/PSI	PASS/ FAIL	RE-TEST	QA ID
DP 78B2	-	F	79/81	421	75-03	HO	110 ~~Peel~~	111	176	F	12-May	CS	Failed in the field-PEEL					78B3	CS
DP 137A	-	F	207/208	5	754-11	GG	121	121	182	P	12-May	CS	15-May	128	118	156	P	-	CS ✓
DP 137B	-	F	207/208	20	754-11	GG	112	119	175	P	12-May	CS	15-May	140	107 ~~Peel~~	148	F	137B2	CS ✓
DP 78B3	-	F	79/80	30	75-03	HO	115 ~~Peel~~	117 ~~Peel~~	176	F	14-May	CS	Failed in the field-PEEL					78B4	CS
DP 152	-	F	55/274	128	75-28	DC	117	119	184	P	16-May	CS	16-May	118	120	150	P	-	CS ✓
DP 153	-	F	283/284	102	754-11	GG	111	117	179	P	16-May	CS	16-May	113	118	159	P	-	CS ✓
DP 154	-	F	288/289	94	754-11	GG	119	116	161	P	16-May	CS	16-May	120	117	150	P	-	CS ✓
DP 155	-	F	293/294	103	754-10	RR	109	120	170	P	16-May	CS	16-May	115	113	151	P	-	CS ✓
DP 156	-	F	298/299	101	754-10	RR	115	111	179	P	16-May	CS	16-May	112	114	156	P	-	CS ✓
DP 157	-	F	303/304	97	75-28	DC	111	111	176	P	16-May	CS	16-May	111	127	151	P	-	CS ✓
DP 158	-	F	267/305	18'S	75-28	DC	113	113	158	P	16-May	CS	19-May	116	123	147	P	-	CS ✓
DP 159	-	F	308/309	95	75-28	DC	112	114	187	P	16-May	CS	19-May	108	118	155	P	-	CS ✓
DP 160	-	F	313/314	94	754-11	GG	113	110	197	P	16-May	CS	19-May	113	112	159	P	-	CS ✓
DP 137B2	-	F	205/206	23'S	754-11	GG	108	106	161	P	16-May	CS	19-May	105	109	154	P	-	CS ✓
DP 78B4	-	F	79/80	97	75-03	HO	116	110	164	P	16-May	CS	Failed in the field-PEEL					DP-76	CS
DP 161	-	F	283/57	Tee	75-28	DC	117	119	158	P	16-May	CS	19-May	137	132	150	P	-	CS ✓
DP 162	-	F	79/CAP/83	129	75-28	DC	109	109	161	P	18-May	CS	20-May	126	123	144	P	-	CS ✓
DP 163	-	F	83/CAP/79	32	75-28	DC	110	115	160	P	18-May	CS	20-May	114	114	142	P	-	CS ✓

NOTES: (1) TRACK TYPES: E=EXTRUSION F=FUSION

DP-78 was bound by DP78A2 and DP76. All seaming between these two destructive samples were capped.

ML

Geosyntec consultants

DENISONMINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation [X] PRIMARY [ ] SECONDARY [ ] OTHER

SAMPLE DISTRIBUTION: [ ] INSTALLER [ ] LABORATORY [ ] ARCHIVE [ ] OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 78 SHEAR: 120 [■] ppi [ ] psi

EXTRUSION: PEEL: SHEAR:

(DP)

SAMPLE DATA							FIELD DATA							LABORATORY DATA								
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
164		X	223 224 (2)	6'N	75-28	DC						(3)	WW								
165		X	334 335	5'E	75-29	RR						12 June	WW	18 June	126	124	150	/			ML
166		X	330 331	3'W	75-29	RR						12 June	WW	18 June	111	109	154	/			ML
167		X	335 336	15'W	75-28	DC						(3)	WW								
168		X	323 324	40's	25-29	DC						16 June	WW	18 June	112	110	138	/			ML
169		X	333 334	7'E	75-29	DC						(3)	WW								

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION (2) Seam # should be 323/324 installed 6/11/08

(3) Seams cut out and capped/repaired prior to destructive sample collection.

REVIEWED BY: MC

75-10 RR 7
75-28 GGM 5
75-29 DC 5

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation [X] PRIMARY [ ] SECONDARY [ ] OTHER

SAMPLE DISTRIBUTION: [X] INSTALLER \2" [X] LABORATORY \8" [X] ARCHIVE \2" [ ] OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 78 SHEAR: 120 [ ] ppi

EXTRUSION: PEEL: SHEAR: [ ] psi

DP

SAMPLE DATA							FIELD DATA						LABORATORY DATA							
~~DP~~ NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
170		X	366 367	11'W	75-28	GGM	117	125	160	/		6/19	WW	24 June	134	130	152	/			ML
171		X	367 368	7'W	75-10	RR	119	~~139~~ 136	157	/		"	WW	24 June	114	120	153	/			ML
172		X	371 372	10'W	75-29	DC	110	116	165	/		"	WW	24 June	120	116	154	/			ML
173		X	373 374	5'W	75-10	RR	109	110	164	/		"	WW	24 June	118	129	152	/			ML
174		X	375 376	18'W	75-10	RR	110	108	142	/		"	WW	24 June	130	128	154	/			ML
175		X	378 379	18'W	75-29	DC	115	116	141	/		"	WW	24 June	124	143	155	/			ML
176		X	361 362	5'N	75-28	GGM	112	103	140	/		"	WW	24 June	116	121	150	/			ML
177		X	359 360	20'N	75-28	GGM	115	109	135	/		"	WW	24 June	122	132	149	/			ML
178		X	363 364	32'NE	75-10	RR	100	101	136	/		"	WW	24 June	116	111	150	/			ML
179		X	356 360	8'E	75-10	RR	123	129	133	/		"	WW	FAILED IN FIELD						T99A	VB
180		X	352 353	4'E	75-28	GGM	128	125	142	/		"	WW	24 June	129	123	147	/			ML
181		X	337 338	5'E	75-29	DC	128	127	150	/		"	WW	24 June	133	139	145	/			ML
182		X	339 340	30'N	75-29	DC	103	108	145	/		"	WW	24 June	125	120	153	/			ML
183		X	339 341	3'N	75-28	GGM	118	120	141	/		"	WW	24 June	129	120	155	/			ML
184		X	342 343	60'N	75-10	RR	107	111	142	/		"	WW	24 June	113	115	154	/			ML

Peel

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

75-10 RR
75-29 DC

A- 363/364
B- 355/356

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill
LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03
DESCRIPTION: Cell 4A YEAR: 2008
INSTALLER: Comanco Environmental Corporation [X] PRIMARY [ ] SECONDARY [ ] OTHER
SAMPLE DISTRIBUTION: [X] INSTALLER [X] LABORATORY [X] ARCHIVE [ ] OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: ~~78~~ 91 lbs SHEAR: 120 [■] ppi
EXTRUSION: PEEL: 78 lbs SHEAR: 120 [ ] psi

SAMPLE DATA							FIELD DATA							LABORATORY DATA							
D.S. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
1135		X	364 365	3 E NE	75-10	RR	92	100	135	X		17 June	WW	24 June	120	133	152	X		—	
1136		X	363 364	0 NE	75-29	DC	125	111	133	X		17 June	WW	24 June	126	131	148	X			
1144		X	363 364	6 NE	75-10	RR	111	108	137	X		17 June	WW	24 June	113	130	152	X			
1793		X	355 356	12 S	75-10	RR	110	113	130	X		17 June	WW	24 June	107	111	154	X			

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION

REVIEWED BY: ML

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation [X] PRIMARY [ ] SECONDARY [ ] OTHER

SAMPLE DISTRIBUTION: [X] INSTALLER [X] LABORATORY [X] ARCHIVE [ ] OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 [■] ppi

EXTRUSION: PEEL: 78 SHEAR: 120 [ ] psi

DPR - SAMPLE DATA							FIELD DATA							LABORATORY DATA							
DS. NO.	TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
CAP 18 1		X	DTB	15'E	7535	ZGM	108	108	140	X		17June	WW	24June	124	115	145	X			JZ
CAP 21 2		X	2nd	21'E	7535	GGM	118	110	140	X		17June	WW	24June	124	122	159	X			JZ
CAP 19 3		X	287	9'E	7535	GGM	105	110	146	X		17June	WW	24June	126	116	150	X			JZ
CAP 24 4		X	51	15'S	7528	PC	115	118	144	X		17June	WW	24June	127	126	151	X			JZ
5		X	52	32'S	7528	PC	121	116	142	X		17June	WW	24June	119	121	153	X			JZ
CAP 25 6		X	47	59'S	7510	KK	109	103	135	X		18June	WW	25June	126	118	176	X			JZ
7		X	46	80'N	7510	RR	113	110	135	X		18June	WW	25June	117	117	154	X			JZ
CAP 27 8		X	44	21'N	7510	RR	105	110	140	X		18June	WW	25June	119	122	153	X			JZ
9		X	43	111'N	7510	RR	105	107	132	X		18June	WW	25June	121	119	151	X			JZ
CAP 28 10		X	41	51'N	7525	RR	103	109	130	X		18June	WW	25June	131	111	152	X			JZ
11		X	40	343'N	7525	RR	100	108	134	X		18June	WW	25June	116	117	153	X			JZ
CAP 29 12		X	35	15'N	7529	PC	114	107	140	X		18June	WW	25June	128	120	153	X			JZ
13		X	34	300'N	7528	PC	109	103	143	X		19June	WW	25June	118	103	140	X			JZ
14		X	300 CAP	12'N	7535	GGM	108	106	132	X		19June	WW	25June	122	114	148	X			JZ
15		X	179 CAP	28'S	7535	GGM	109	105	144	X		19June	WW	25June	109	113	142	X			JZ

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION DPR = Destruct Primary Repair

SC0349 - Destructive Test Log.xls REVIEWED BY: ML

Geosyntec consultants

DENISONMINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation ☒ PRIMARY ☐ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ☒ INSTALLER ☒ LABORATORY ☒ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ☐ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☑ psi

DPR

~~D.S.~~ NO.	SAMPLE DATA: TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	FIELD DATA: AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	LABORATORY DATA: RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
16		X	191 C48	10'S	7535	GGM	109	108	143	X		19 June	WW	25 June	120	114	146	X			JZ
17		X	30 C30	300'S	7528	PC	111	113	146	X		19 June	WW	25 June	123	116	139	X			JZ
18		X	31 C30	24'N	7528	PC	113	109	145	X		19 June	WW	25 June	125	112	143	X			JZ
19		X	30 C30	93'N	7528	PC	107	105	138	X		19 June	WW	25 June	132	113	143	X			JZ
20		X	27 C31	18'N	7529	RR	110	107	147	X		19 June	WW	25 June	124	116	145	X			JZ
21		X	26 C31	150'N	7529	RR	108	112	145	X		19 June	WW	25 June	118	119	142	X			JZ
22		X	23 C41	30'N	7528	PC	112	109	133	X		19 June	WW	25 June	132	122	146	X			JZ
23		X	22 C41	275'S	7528	PC	106	108	139	X		19 June	WW	25 June	126	110	144	X			JZ
24		X	17 C42	5'N	75-10	RR	108	110	147	X		20 June	WW	25 June	125	123	142	X			JZ
25		X	16 C42	100'S	75-10	RR	107	108	135	X		20 June	JZ	25 June	112	108	140	X			JZ
26		X	13 C49	36'N	75-10	RR	115	111	137	X		20 June	JZ	25 June	116	120	142	X			JZ
27		X	12 C49	250'S	75-10	RR	108	112	130		X	20 June	JZ	26 June	114 121	121 127	149 146	X		27A 27B	JZ ML
28		X	9 C50	18'N	75-28	PC	114	110	136	X		20 June	JZ	25 June	118	121	144	X			JZ
29		X	8 C50	190'S	75-28	PC	108	109	132	X		20 June	ML	25 June	125	107	137	X			JZ
30		X	227 C48	20'S	75-95	GGM	120	123	151	X		24 June	ML	26 June	118	121	147	X			JZ

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION DPR = DESTRUCTIVE PRIMARY REPAIR

27 FAILED IN FIELD SAMPLES A/B SENT TO LAB

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

DESCRIPTION: Cell 4A

PROJECT NO.: SC0349 TASK NO.: 02 / 03

YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation

SAMPLE DISTRIBUTION: [X] INSTALLER [X] LABORATORY [X] ARCHIVE [X] PRIMARY [/] SECONDARY [ ] OTHER [ ] OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 EXTRUSION: PEEL: 78 SHEAR: 120 [ ] ppi [X] psi

DPR

~~DS~~ NO.	SAMPLE DATA: TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	FIELD DATA: AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	LABORATORY DATA: RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
31		X	1296 C34	18'E	7535	GGM	119	120	151	X		24 JUNE	JZ	26 JUNE	123	127	152	~~X~~	~~X~~	31A 31B	JZ
32		X	309 C39	9'E	7535	GGM	121	114	155	X		24 JUNE	JZ	26 JUNE	122	120	152	X			JZ
33		X	261 C43	10'N	7535	GGM	102	105	138	X		24 JUNE	JZ	26 JUNE	121	117	148	X			JZ
34		X	194 C35	6'N	7535	GGM	107	109	143	X		24 JUNE	JZ	26 JUNE	126	115	150	X			JZ
35		X	203 C58	11'N	7535	GGM	104	115	162	X		24 JUNE	JZ	26 JUNE	123	117	159	X			JZ
36		X	41 C28	9'S	75-29	RR	~~117~~	117	140	X		24 JUNE	JZ	26 JUNE	123	122	144	X			JZ
37		X	46 C25	10'S	75-10	RR	109	108	154	X		24 JUNE	JZ	26 JUNE	120	124	145	X			JZ
38		X	52 C51	9'S	75-28	PC	111	112	151	X		24 JUNE	JZ	26 JUNE	130	114	145	X			JZ
39		X	266 C14	10'N	75-25	PC	109	106	141	X		24 JUNE	JZ	26 JUNE	112	105	153	X			JZ
40		X	321 C12	5'N	75-25	PC	127	124	145	X		24 JUNE	JZ	26 JUNE	120	120	143	X			JZ
41		X	273 C12	7'N	75-25	PC	118	111	151	X		24 JUNE	JZ	26 JUNE	131	123	144	X			JZ
42		X	269 C14	13'N	75-25	PC	108	111	139	X		24 JUNE	JZ	26 JUNE	126	118	149	X			JZ
43		X	306 C12	8'N	75-25	PC	116	112	137	X		24 JUNE	JZ	26 JUNE	123	123	142	X			JZ
44		X	265 C15	16'S	75-25	PC	113	111	140	X		24 JUNE	JZ	26 JUNE	129	117	143	X			JZ
45		X	75 C54	6'E	75-25	PC	117	121	142	X		24 JUNE	JZ	26 JUNE	127	120	141	X			JZ

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION DPR = DESTRUCTIVE PRIMARY REPAIR

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation

SAMPLE DISTRIBUTION: [X] INSTALLER [X] LABORATORY [X] ARCHIVE [X] PRIMARY [ ] SECONDARY [ ] OTHER [ ] OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 [■] ppi [ ] psi

EXTRUSION: PEEL: 78 SHEAR: 120

DPR

~~D.S.~~ NO.	SAMPLE DATA: TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	FIELD DATA: AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	LABORATORY DATA: RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
46		X	50 C54	6'W	75-25	JC	113	111	144	X		24 June		26 June	128	124	152	X			
47		X	87 C54	9'W	75-25	JC	118	116	139	X		24 June		26 June	131	125	148	X			
48		X	44 C54	9'W	75-25	JC	112	114	136	X		24 June		26 June	122	127	137	X			
49		X	217 C59	7'N	75-35	GGM	122	119	166	X		24 June		26 June	129	119	147	X			
27B		X	12 C49		75-10	RR	106	107	135	X		24 June		26 June	114	121	149	X			
27A		X	12 C49		75-10	RR	108	110	135	X		24 June		26 June	121	127	146	X			
50		X	12 C54	8'W	75-25	JC	126	114	131	X		24 June		26 June	129	131	144	X			
51		X	146 C54	8'W	75-25	JC	105	108	134	X		24 June		26 June	122	121	141	X			
52		X	5 C52	500'S	75-28	PC	103	103	140	X		24 June		26 June	115	109	146	X			
53		X	6 C52	390'S	75-28	PC	108	110	137	X		24 June		26 June	120	120	145	X			
54		X	5 C52	200'S	75-28	PC	111	106	113	X		24 June		26 June	110	105	150	X			
55		X	64 C54	6'E	75-25	JC	119	121	149	X		24 June		26 June	129	125	146	X			
56		X	162 C54	7'W	75-25	JC	115	125	157	X		24 June		26 June	126	124	136	X			
57		X	2 C16	12'N	75-10	RR	107	108	151	X		24 June		26 June	115	117	146	X			
58		X	3 C16	352'S	75-10	RR	110	117	151	X		24 June		26 June	129	116	146	X			

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION DPR = DESTRUCTIVE PRIMARY/ REPAIR

Geosyntec consultants

DENISONMINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: ~~2007~~ 2008

INSTALLER: Comanco Environmental Corporation ☒ PRIMARY ☒ SECONDARY ☐ OTHER

SAMPLE DISTRIBUTION: ☒ INSTALLER ☒ LABORATORY ☒ ARCHIVE ☐ OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 ☐ ppi

EXTRUSION: PEEL: 78 SHEAR: 120 ☒ psi

DPR

~~D.S.~~ NO.	SAMPLE DATA: TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	FIELD DATA: AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	LABORATORY DATA: RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
59		X	1251 C67	3'E	75-28	PC	110	106	139	X		24 June	JT	06/27	121	117	152	X			ML
60		X	248 C66	10'E	75-28	PC	108	109	141	X		24 June	JT	06/27	120	119	148	X			ML
61		X	167 C17	6'S	75-25	JC	107	107	146	X		24 June	JT	26 June	125	107	149	X			JT
62		X	242 C64	17'E	75-28	PC	110	116	144	X		24 June	JT	06/27	120	115	149	X			ML
63		X	159 C17	8'S	75-28	PC	115	115	148	X		24 June	JT	26 June	128	118	148	X			JT
64		X	228 C17	6'NE	75-28	PC	118	118	137	X		24 June	JT	06/27	129	119	147	X			ML
65		X	246 C17	6'S	75-25	JC	116	117	145	X		24 June	JT	06/27	122	123	143	X			ML
66		X	91 repair	8'W	75-10	RR	120	117	142	X		24 June	JT	06/27	106	109	144	X			ML
67		X	95 C53	12'E	75-35	GGM	114	108	150	X		24 June	JT	06/27	121	114	147	X			ML
68		X	112 C53	7'E	75-35	GGM	116	123	149	X		24 June	JT	06/27	138	133	142	X			ML
69		X	134 repair	7'E	75-25	JC	109	101	137	X		24 June	JT	06/27	131	113	146	X			ML
70		X	133 repair	6'W	75-25	JC	112	116	138	X		24 June	JT	06/27	121	123	140	X			ML
71	F	~~X~~	250 C17	7'N	011	JC	—	117	140	X		24 June	JT	06/27	96	~~3~~ —	142	X			ML
72		X	84 C63	157'N C53	75	RR	108 ~~107~~	108	142	X		25 June	JT	06/27	118	115	151	X			ML
73		X	86 C63	200'N C53	75	RR	118	111	136	X		25 June	JT	06/27	119	122	151	X			ML

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION DPR = DESTRUCTING PRIMARY REPAIR

Geosyntec consultants

DENISON MINES

DESTRUCTIVE TEST LOG

PROJECT: White Mesa Mill

LOCATION: Blanding, UT

PROJECT NO.: SC0349 TASK NO.: 02 / 03

DESCRIPTION: Cell 4A

YEAR: 2007

INSTALLER: Comanco Environmental Corporation [X] PRIMARY [ ] SECONDARY [ ] OTHER

SAMPLE DISTRIBUTION: [X] INSTALLER [X] LABORATORY [X] ARCHIVE [ ] OTHER

MINIMUM TEST REQUIREMENTS: FUSION: PEEL: 91 SHEAR: 120 [ ] ppi

EXTRUSION: PEEL: 78 SHEAR: 120 [X] psi

DPR

~~D.S.~~ NO.	SAMPLE DATA: TRACK[1] SINGLE	TRACK[1] DOUBLE	LOCATION SEAM	LOCATION DIST.	MACHINE NO.	OPER. ID	FIELD DATA: AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	SAMPLE DATE	QA ID	LABORATORY DATA: RESULT DATE	AVG. PEEL INSIDE	AVG. PEEL OUTSIDE	AVG. SHEAR	PASS	FAIL	RE-TEST	QA ID
74		X	85/C62	25'S	7510	RR	113	114	134	X		25 June	JZ	06/27	117	118	153	X			ML
75	X		92/1	22'N C53	7411	GGM	-	93	134	X		25 June	JZ	06/27	110	-	149	X			ML
31A		X	296/C34	10'	7535	GGM	113	118	159	X		27 June	JZ	06/30	126	108	156	X			ML
31B		X	298/C33	10'	7535	GGM	111	114	146	X		27 June	JZ	06/30	118	113	148	X			ML
76		X	262/C76	10'	7525	JC	105	111	141	X		27 June	JZ	06/30	119	115	149	X			ML
77		X	66/C76 (TCTC)	15'	7525	JC	112	114	149	X		27 June	JZ	06/30	114	117	154	X			ML
66A		X	97/C514	15'	7510	RR	118	124	151	X		28 June	JZ	1 July	121	120	143	X			ML
* 66B		X	93/C52	12'	7510	RR	129	127	164	X		28 June	JZ	1 July	131	124	143	X			ML

NOTES: (1) TRACK TYPES: E = EXTRUSION F = FUSION DPR = DESTRUCTIVE PRIMARY REPAIR

10' FROM CREST * DPR - 66 NORTH SEAM

SC0349 - Destructive Test Log.xls REVIEWED BY: ML

TRI / Environmental, Inc.
A Texas Research International Company

October 12, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2299-32-03
Material(s) Tested:	2 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-32-03

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-1**						
Weld:	**Heat Fusion**						
Side A							Peel A
Peel Strength (ppi)		133	128	128	130	123	128
Peel Incursion (%)		<10	<10	<10	<10	<10	
Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B							Peel B
Peel Strength (ppi)		119	121	114	117	112	117
Peel Incursion (%)		<10	<10	<10	<10	<10	
Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
							Shear
Shear Strength (ppi)		154	158	160	157	156	157
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:	**DS-2**						
Weld:	**Heat Fusion**						
Side A							Peel A
Peel Strength (ppi)		116	128	125	130	128	125
Peel Incursion (%)		<10	<10	<10	<10	<10	
Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B							Peel B
Peel Strength (ppi)		133	132	130	132	127	131
Peel Incursion (%)		<10	<10	<10	<10	<10	
Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
							Shear
Shear Strength (ppi)		155	153	155	154	155	154
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

TRI / Environmental, Inc.
A Texas Research International Company

October 15, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2299-34-08
Material(s) Tested:	3 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-34-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-3**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	131	128	128	127	131	Peel A: 129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	119	120	120	120	114	Peel B: 119
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	164	163	162	162	163	Shear: 163
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-4**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	116	106	116	101	102	Peel A: 108
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	118	130	117	129	123	Peel B: 123
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	154	151	153	153	Shear: 153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-34-08

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-5**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	128	126	128	128	130	128
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	122	123	125	124	124	124
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	156	155	153	155	155	155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 17, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2299-38-09
Material(s) Tested:	3 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-38-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-6**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	122	124	120	126	129	124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	124	116	122	129	120	122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	150	147	152	148	146	149
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-7**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	116	126	116	112	121	118
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	130	129	120	128	121	126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	163	160	161	162	166	162
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: Denison Mines

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-38-09

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
	Sample ID:	**DS-8**						
	Weld:	**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		113	111	124	127	126	120
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		113	111	112	111	110	111
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		159	157	157	155	160	158
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 19, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2299-43-03
Material(s) Tested:	4 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-43-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-9**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	118	118	121	115	120	Peel A: 118
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	122	122	121	123	124	Peel B: 122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	146	147	149	145	146	Shear: 147
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-10**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	125	125	124	125	124	Peel A: 125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	124	130	126	122	123	Peel B: 125
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	162	160	160	163	161	Shear: 161
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-43-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-11**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	129	125	134	126	126	128
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	113	112	119	130	123	119
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	157	152	154	157	157	155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-12**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	132	134	133	132	131	132
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	120	127	122	123	118	122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	166	163	165	160	156	162
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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October 22, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2299-45-05
Material(s) Tested:	9 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-45-05

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-13**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	133	127	130	130	132	Peel A: 130
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	127	106	127	125	109	Peel B: 119
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	161	159	159	161	161	Shear: 160
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-14**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	129	129	124	131	132	Peel A: 129
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	122	124	115	118	115	Peel B: 119
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	158	157	157	156	Shear: 157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-45-05

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-15**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	129	126	130	129	131	129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	131	129	128	128	134	130
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	154	154	155	153	158	155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-16**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	131	128	131	132	132	131
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	127	121	127	123	119	123
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	159	158	157	156	157	157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-45-05

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-17**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	137	134	136	135	134	135
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	130	131	130	136	130	131
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	157	157	156	156	157	157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-18**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	118	122	113	117	113	117
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	114	114	114	110	114	113
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	158	158	157	158	159	158
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: Denison Mines

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-45-05

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-19**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	133	134	135	134	132	Peel A: 134
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	132	129	130	133	133	Peel B: 131
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	150	150	152	152	147	Shear: 150
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-20**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	133	131	131	134	134	Peel A: 133
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	120	119	119	122	118	Peel B: 120
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	150	150	149	150	151	Shear: 150
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-45-05

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-21**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	110	114	128	114	114	116
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	118	121	119	127	120	121
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	147	146	147	148	148	147
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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October 25, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2299-51-09
Material(s) Tested:	9 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-51-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-22**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	118	119	121	118	110	117
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	108	115	113	110	110	111
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	156	158	157	156	159	157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-23**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	109	109	108	109	106	108
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	106	101	109	113	103	106
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	150	151	151	151	151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-51-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-24**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	130	131	130	126	127	129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	131	126	128	128	133	129
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	157	156	156	156	159	157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-25**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	122	123	125	118	123	122
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	126	132	133	125	113	126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	154	153	152	152	153	153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-51-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-26**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	118	112	105	106	107	110
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	137	120	143	120	129	130
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	154	153	153	154	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-27**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	112	120	108	113	108	112
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	114	111	114	113	112	113
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	151	148	149	153	150
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-51-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-28**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	116	118	117	118	116	Peel A: 117
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	116	119	114	113	110	Peel B: 114
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	151	152	150	152	151	Shear: 151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-29**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	107	106	103	106	102	Peel A: 105
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	131	116	120	106	112	Peel B: 117
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	154	154	153	154	Shear: 154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-51-09

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-30**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	128	128	121	129	129	127
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	117	122	117	119	119	119
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	153	154	152	152	154	153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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October 26, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2299-54-02
Material(s) Tested:	20 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-31**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	125	128	130	127	127	127
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	113	117	117	117	118	116
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	154	155	152	153	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-32**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	124	122	128	125	122	124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	121	133	128	120	132	127
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	153	153	139	149	149	149
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-33**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	128	126	125	120	125	125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	115	113	116	118	116	116
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	152	153	153	154	153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-34**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	127	132	130	128	131	130
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	113	106	107	117	123	113
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	156	155	155	156	156	156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-35**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	106	110	106	112	111	109
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	117	112	114	120	110	115
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	152	153	145	151	151	150
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-36**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	119	113	116	119	116	117
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	129	132	129	140	126	131
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	156	157	152	152	154	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-37**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	125	127	124	125	125	125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	118	113	114	119	111	115
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	156	157	154	156	155	156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-38**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	118	121	120	118	121	120
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	112	113	116	113	109	113
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	154	155	154	153	153	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-39**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	126	116	110	121	118	118
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	120	126	121	120	123	122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	152	153	150	152	150	151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-40**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	124	124	127	123	131	126
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	127	122	137	128	121	127
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	148	148	151	147	147	148
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-41**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	121	135	128	124	129	127
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	118	118	140	121	113	122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	156	157	156	157	156	156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-42**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	127	128	128	130	130	129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	120	121	121	124	117	121
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	153	154	154	155	153	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

		TEST REPLICATE NUMBER					
PARAMETER		**1**	**2**	**3**	**4**	**5**	**MEAN**
Sample ID:	**DS-43**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	123	126	119	124	120	122
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	122	132	126	127	122	126
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	155	152	152	155	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-44**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	100	133	124	134	124	123
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	109	112	130	120	119	118
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	157	159	158	158	157	158
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-45**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	136	128	129	130	133	131
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	128	127	131	125	118	126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	157	159	157	157	158	158
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-46**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	127	131	117	128	122	125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	130	129	132	125	123	128
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	152	155	152	153	155	153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-47**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	122	121	120	113	129	121
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	133	122	121	116	135	125
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	158	158	156	155	155	156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-48**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	132	124	120	135	138	130
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	126	120	128	121	132	125
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	157	157	159	156	157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-54-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-49**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	114	110	114	116	116	114
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	142	117	116	118	114	121
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	154	155	155	157	155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-50**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	119	128	126	125	119	123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	122	134	125	134	127	128
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	154	155	154	153	154	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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November 5, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mill, Cell 4A**
TRI Job Reference Number:	E2299-66-08
Material(s) Tested:	7 Heat Fusion Weld Seam(s) 1 Single Extrusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-66-08

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-51**						
Weld:	**Single Extrusion**						
							Peel
Peel Strength (ppi)		124	111	110	115	96	111
Peel Incursion (%)		<10	<10	<10	<10	<10	
Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
							Shear
Shear Strength (ppi)		150	149	149	148	148	149
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:	**DS-52**						
Weld:	**Heat Fusion**						
							Peel A
Side A: Peel Strength (ppi)		128	135	128	122	126	128
Side A: Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A: Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A: Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B: Peel Strength (ppi)		131	123	120	124	122	124
Side B: Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B: Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B: Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
							Shear
Shear Strength (ppi)		157	159	157	158	159	158
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-66-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-53**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	111	109	116	117	115	114
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	117	111	113	116	113	114
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	149	150	148	150	150
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-54**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	123	120	126	127	109	121
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	115	116	116	119	117	117
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	149	149	148	150	149
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-66-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-55**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	127	124	127	125	128	126
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	126	125	131	128	126	127
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	144	142	144	144	145	144
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-56**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	121	125	121	119	121	121
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	121	124	124	122	121	122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	160	159	160	159	161	160
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-66-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
	Sample ID: **DS-57**						
	Weld: **Heat Fusion**						
Side A	Peel Strength (ppi)	121	123	121	122	119	Peel A: 121
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	116	120	117	118	112	Peel B: 117
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	139	134	134	136	136	Shear: 136
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
	Sample ID: **DS-58**						
	Weld: **Heat Fusion**						
Side A	Peel Strength (ppi)	128	127	127	125	124	Peel A: 126
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	99	115	118	119	116	Peel B: 113
Side B	Peel Incursion (%)	25	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	AD-BRK	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	151	152	151	152	151	Shear: 151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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November 6, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

e mail: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mill, Cell 4A**
TRI Job Reference Number:	E2299-68-10
Material(s) Tested:	10 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-68-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-59**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	133	120	123	123	119	124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	121	118	120	120	118	119
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	152	153	152	154	154	153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-60**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	125	126	127	124	125	125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	58	47	48	44	58	51
Side B	Peel Incursion (%)	100	100	100	100	100	
Side B	Peel Locus of Failure Code	AD	AD	AD	AD	AD	
Side B	Peel NSF Failure Code	NON-FTB	NON-FTB	NON-FTB	NON-FTB	NON-FTB	
							Shear
	Shear Strength (ppi)	155	156	155	156	156	156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-68-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
	Sample ID: DS-61						
	Weld: Heat Fusion						
Side A	Peel Strength (ppi)	114	115	120	113	119	Peel A: 116
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	114	117	115	114	115	Peel B: 115
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	149	147	148	148	148	Shear: 148
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
	Sample ID: DS-62						
	Weld: Heat Fusion						
Side A	Peel Strength (ppi)	129	126	124	124	125	Peel A: 126
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	129	126	127	122	128	Peel B: 126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	151	147	149	147	147	Shear: 148
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-68-10

		TEST REPLICATE NUMBER					
PARAMETER		**1**	**2**	**3**	**4**	**5**	**MEAN**
Sample ID:	**DS-63**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	125	129	127	128	124	127
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	128	133	129	132	131	131
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	145	143	143	140	137	142
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-64**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	130	131	129	129	128	129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	110	114	113	117	112	113
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	158	155	154	154	155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-68-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-65**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	124	127	126	124	125	Peel A: 125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	125	131	125	128	120	Peel B: 126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	154	157	155	156	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-66**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	118	124	119	123	116	Peel A: 120
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	119	142	122	143	127	Peel B: 131
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	156	155	154	156	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-68-10

		TEST REPLICATE NUMBER					
PARAMETER		**1**	**2**	**3**	**4**	**5**	**MEAN**
Sample ID:	**DS-67**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	128	130	130	131	129	Peel A: 130
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	127	131	130	127	127	Peel B: 128
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	141	138	137	141	140	Shear: 139
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-68**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	121	123	119	117	118	Peel A: 120
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	123	120	127	111	120	Peel B: 120
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	158	155	158	157	Shear: 157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mill, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-68-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-67**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	128	130	130	131	129	Peel A: 130
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	127	131	130	127	127	Peel B: 128
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	141	138	137	141	140	Shear: 139
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-68**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	121	123	119	117	118	Peel A: 120
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	123	120	127	111	120	Peel B: 120
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	158	155	158	157	Shear: 157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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November 9, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mine, Cell 4A**
TRI Job Reference Number:	E2299-74-09
Material(s) Tested:	9 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-74-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-60A**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	121	122	128	123	120	123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	115	113	111	113	115	113
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	162	158	158	159	158
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-60B**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	131	139	133	137	136	135
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	122	124	124	136	121	125
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	165	166	165	163	164	165
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-74-09

		TEST REPLICATE NUMBER					
PARAMETER		**1**	**2**	**3**	**4**	**5**	**MEAN**
Sample ID:	**DS-69**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	125	122	125	125	126	Peel A: 125
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	122	124	132	124	125	Peel B: 125
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	159	161	159	160	160	Shear: 160
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-70**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	122	119	124	118	122	Peel A: 121
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	110	111	113	135	109	Peel B: 116
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	153	153	152	153	154	Shear: 153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-74-09

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:		**DS-71**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		122	118	122	126	126	Peel A: 123
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		127	125	122	121	126	Peel B: 124
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		153	150	151	150	153	Shear: 151
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:		**DS-72**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		126	122	113	113	109	Peel A: 117
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		122	121	104	123	127	Peel B: 119
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		150	160	161	161	166	Shear: 160
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-74-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-73**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	129	124	120	121	119	Peel A: 123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	119	128	118	115	120	Peel B: 120
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	151	157	155	154	156	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-74**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	125	126	128	128	129	Peel A: 127
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	133	138	128	134	121	Peel B: 131
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	159	158	158	160	160	Shear: 159
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-74-09

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-75**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	124	125	128	124	125	125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	135	123	116	126	117	123
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	163	167	166	163	165	165
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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November 13, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
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San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mine, Cell 4A**
TRI Job Reference Number:	E2299-80-03
Material(s) Tested:	8 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-80-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-76**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	132	128	126	141	132	132
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	129	118	128	133	121	126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	153	152	152	152	152
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-77**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	128	124	129	127	124	126
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	119	120	124	121	115	120
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	150	150	151	152	153	151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-80-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-78**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	118	125	120	128	122	123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	137	134	133	131	125	132
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	150	152	151	153	154	152
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-79**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	115	120	119	118	117	118
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	116	114	124	115	114	117
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	157	155	154	157	154	155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-80-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-80**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	124	129	134	130	128	129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	113	117	117	111	109	113
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	150	151	150	154	151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-81**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	123	114	118	118	130	121
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	133	126	134	134	126	131
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	147	150	148	148	149	148
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-80-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-82**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	123	122	125	123	127	Peel A: 124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	119	110	124	136	118	Peel B: 121
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	148	146	146	147	149	Shear: 147
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-83**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	120	122	125	124	124	Peel A: 123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	113	114	118	112	114	Peel B: 114
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	147	148	148	149	149	Shear: 148
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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TRI / Environmental, Inc.
A Texas Research International Company

November 14, 2007
November 16, 2007 Reissued with corrected seam numbers

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mine, Cell 4A**
TRI Job Reference Number:	E2299-82-09
Material(s) Tested:	6 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

MPatel

Dr. Mansukh Patel
Sr. Laboratory Coordinator
Geosynthetic Services Division
www.GeosyntheticTesting.com

cc: Sam R. Allen, Vice President and Division Manager

GeosyntheticTesting.com
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-82-09

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:		**DS-84**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		126	126	134	127	120	Peel A: 127
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		131	130	129	112	118	Peel B: 124
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		168	165	165	169	165	Shear: 166
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:		**DS-85**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		127	128	129	130	125	Peel A: 128
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		124	112	122	120	121	Peel B: 120
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		166	169	170	170	171	Shear: 169
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-82-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-86**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	130	117	115	126	126	Peel A: 123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	136	122	147	146	149	Peel B: 140
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	168	167	169	174	170	Shear: 170
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-87**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	120	116	118	122	122	Peel A: 120
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	121	121	116	118	115	Peel B: 118
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	169	170	173	173	175	Shear: 172
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-82-09

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-88**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	130	125	120	123	123	Peel A: 124
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	120	121	121	117	115	Peel B: 119
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	162	160	162	159	159	Shear: 160
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-89**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	139	135	133	141	132	Peel A: 136
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	141	141	141	142	141	Peel B: 141
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	159	157	155	157	154	Shear: 156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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November 16, 2007

Mail To:

Mr. Greg Corcoran
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10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mine, Cell 4A**
TRI Job Reference Number:	E2299-87-02
Material(s) Tested:	6 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-87-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-90**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	127	122	125	125	121	Peel A: 124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	120	117	117	118	114	Peel B: 117
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	158	156	158	156	Shear: 157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-91**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	137	134	137	136	133	Peel A: 135
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	137	137	139	138	129	Peel B: 136
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	149	146	150	151	149	Shear: 149
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2299-87-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-92**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	119	116	125	122	116	Peel A: 120
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	122	126	128	126	122	Peel B: 125
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	154	157	155	155	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-93**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	114	114	136	139	127	Peel A: 126
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	119	116	117	104	110	Peel B: 113
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	162	159	163	161	161	Shear: 161
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mine, Cell 4A

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-87-02

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-94**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	121	119	119	117	118	Peel A: 119
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	121	128	126	122	125	Peel B: 124
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	155	154	155	154	155	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-95**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	126	111	127	126	129	Peel A: 124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	117	115	112	113	114	Peel B: 114
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	162	162	162	159	161	Shear: 161
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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TRI / Environmental, Inc.
A Texas Research International Company

November 21, 2007

Mail To:

Mr. Greg Corcoran
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San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines**
TRI Job Reference Number:	E2299-93-07
Material(s) Tested:	15 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
	Sample ID:	**DS-96**						
	Weld:	**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		122	120	123	121	122	122
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		116	111	115	114	112	114
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		150	149	150	151	152	150
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
	Sample ID:	**DS-97**						
	Weld:	**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		114	113	116	115	114	114
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		115	114	110	115	117	114
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		151	151	149	150	152	151
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-98**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	127	124	126	128	127	126
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	127	128	129	131	129	129
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	162	158	159	158	155	158
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-99**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	129	136	142	131	128	133
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	128	130	128	129	130	129
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	161	160	161	159	163	161
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-100**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	126	124	124	127	125	Peel A: 125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	118	115	120	116	117	Peel B: 117
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	151	149	152	154	Shear: 152
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-101**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	131	132	132	133	132	Peel A: 132
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	132	128	124	125	124	Peel B: 127
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	151	150	149	147	151	Shear: 150
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-102**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	123	122	122	125	122	123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	114	123	126	114	115	118
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	153	154	155	153	157	154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-103**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	115	114	118	118	122	117
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	118	117	120	142	134	126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	151	150	151	153	153	152
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-104**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	122	126	118	125	129	Peel A: 124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	129	131	133	125	120	Peel B: 128
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	154	153	154	154	Shear: 154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-105**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	120	129	122	120	120	Peel A: 122
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	134	121	130	133	127	Peel B: 129
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	151	151	149	152	153	Shear: 151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-106**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	124	125	124	124	126	125
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	113	108	113	112	108	111
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	148	148	147	149	146	148
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-107**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	116	114	118	113	99	112
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	121	111	118	123	117	118
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	146	147	145	146	147	146
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-108**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	117	114	118	119	131	120
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	126	119	122	119	128	123
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	158	154	154	156	157	156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-109**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	119	115	122	127	122	121
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	128	126	123	124	129	126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	152	154	153	153	155	153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2299-93-07

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
	Sample ID:	**DS-110**						
	Weld:	**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		118	107	122	100	117	113
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		116	116	113	115	116	115
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		148	148	148	149	149	148
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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December 4, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines**
TRI Job Reference Number:	E2302-07-06
Material(s) Tested:	19 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:		**DS-111**						
Weld:		**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		118	119	116	120	116	118
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		122	117	120	119	118	119
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		161	160	159	160	158	160
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:		**DS-112**						
Weld:		**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		116	115	116	118	116	116
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		130	130	129	132	126	129
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		162	161	163	162	164	162
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-113**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	117	115	116	112	110	Peel A: 114
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	125	126	123	126	123	Peel B: 125
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	158	157	157	157	158	Shear: 157
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-114**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	109	109	102	108	105	Peel A: 107
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	130	125	124	127	127	Peel B: 127
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	154	152	153	154	Shear: 153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-115**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	129	130	130	128	127	Peel A: 129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	125	125	121	123	125	Peel B: 124
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	150	148	148	148	148	Shear: 148
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-116**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	122	122	123	121	121	Peel A: 122
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	116	117	117	117	115	Peel B: 116
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	152	152	153	154	Shear: 153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-117**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	129	127	128	127	128	Peel A: 128
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	137	127	130	131	132	Peel B: 131
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	153	152	151	152	155	Shear: 153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-118**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	116	108	105	108	108	Peel A: 109
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	131	123	129	126	127	Peel B: 127
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	153	151	150	152	151	Shear: 151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-119**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	130	137	137	143	121	Peel A: 134
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	126	125	127	129	126	Peel B: 127
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	160	161	160	158	159	Shear: 160
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-120**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	128	130	128	126	126	Peel A: 128
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	125	139	124	130	125	Peel B: 129
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	158	160	157	159	159	Shear: 159
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
	Sample ID:	**DS-121**						
	Weld:	**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		118	121	122	124	121	121
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		123	122	123	121	131	124
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		151	150	150	151	150	150
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
	Sample ID:	**DS-122**						
	Weld:	**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		126	126	129	126	126	127
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		127	117	126	125	122	123
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		156	156	156	155	155	156
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-123**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	125	120	123	123	121	Peel A: 122
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	117	117	119	120	118	Peel B: 118
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	155	154	155	154	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-124**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	122	121	122	121	124	Peel A: 122
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	129	122	132	134	127	Peel B: 129
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	155	154	153	153	155	Shear: 154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-125**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	134	129	131	134	128	Peel A: 131
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	129	125	127	128	127	Peel B: 127
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	154	155	154	153	Shear: 154
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-126**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	134	116	118	93	121	Peel A: 116
	Peel Incursion (%)	<10	<10	<10	50	<10	
	Peel Locus of Failure Code	SE	SE	SE	AD-BRK	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	115	114	123	129	121	Peel B: 120
	Peel Incursion (%)	<10	<10	<10	<10	<10	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	149	149	147	146	146	Shear: 147
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-127**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	124	122	122	124	123	Peel A: 123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	127	122	119	119	121	Peel B: 122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	153	151	152	151	151	Shear: 152
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-128**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	119	119	91	115	117	Peel A: 112
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	113	140	119	112	119	Peel B: 121
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	155	155	155	154	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-07-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-129**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	125	123	123	122	121	123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	131	127	127	126	127	128
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	152	151	152	152	150	151
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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TRI / Environmental, Inc.
A Texas Research International Company

December 5, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines**
TRI Job Reference Number:	E2302-09-04
Material(s) Tested:	6 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-09-04

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-130**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	138	133	134	135	137	135
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	120	121	146	124	114	125
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	164	163	163	163	163	163
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-131**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	129	129	124	132	131	129
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	132	127	128	127	126	128
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	155	156	156	157	154	156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-09-04

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:		**DS-132**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		134	129	132	133	131	Peel A: 132
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		123	120	127	136	125	Peel B: 126
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		157	158	158	158	158	Shear: 158
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:		**DS-133**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		134	135	136	132	125	Peel A: 132
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		123	123	134	132	122	Peel B: 127
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		156	154	154	154	156	Shear: 155
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-09-04

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-134**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	125	131	130	126	119	Peel A: 126
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	118	115	118	120	127	Peel B: 120
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	159	159	160	159	161	Shear: 160
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-135**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	136	141	123	131	128	Peel A: 132
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	128	126	122	125	130	Peel B: 126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	156	156	156	158	156	Shear: 156
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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December 10, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines**
TRI Job Reference Number:	E2302-12-08
Material(s) Tested:	10 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-12-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-136**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	127	125	124	121	124	124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	128	115	124	120	124	122
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	156	155	155	156	155	155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-137**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	124	122	121	120	122	122
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	131	125	127	121	130	127
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	154	152	152	153	151	152
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-12-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-138**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	121	123	120	137	118	Peel A: 124
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	121	129	141	129	118	Peel B: 128
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	154	153	156	156	154	Shear: 155
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-139**						
Weld:	**Heat Fusion**						
Side A	Peel Strength (ppi)	128	129	128	132	134	Peel A: 130
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)	125	126	130	121	126	Peel B: 126
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)	153	153	153	153	152	Shear: 153
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-12-08

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:		**DS-140**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		113	130	103	107	114	Peel A: 113
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		121	122	124	127	127	Peel B: 124
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		146	143	146	148	142	Shear: 145
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:		**DS-141**						
Weld:		**Heat Fusion**						
Side A	Peel Strength (ppi)		124	124	123	125	123	Peel A: 124
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
Side B	Peel Strength (ppi)		116	115	116	116	119	Peel B: 116
	Peel Incursion (%)		<10	<10	<10	<10	<10	
	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
	Shear Strength (ppi)		151	151	152	151	149	Shear: 151
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-12-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:	**DS-142**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	127	123	123	118	126	123
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	120	112	119	117	122	118
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	147	143	146	147	143	145
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	
Sample ID:	**DS-143**						
Weld:	**Heat Fusion**						
							Peel A
Side A	Peel Strength (ppi)	131	132	132	131	132	132
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Peel B
Side B	Peel Strength (ppi)	121	122	131	120	125	124
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB	
							Shear
	Shear Strength (ppi)	153	151	151	153	151	152
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50	

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2302-12-08

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN
Sample ID:		**DS-144**						
Weld:		**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		131	130	132	134	133	132
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		119	118	120	118	119	119
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		150	149	149	151	148	149
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	
Sample ID:		**DS-145**						
Weld:		**Heat Fusion**						
								Peel A
Side A	Peel Strength (ppi)		125	121	121	122	120	122
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Peel B
Side B	Peel Strength (ppi)		121	116	116	112	120	117
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10	
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE	
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB	
								Shear
	Shear Strength (ppi)		153	154	155	153	152	153
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50	

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April 18, 2008

Mail To:

Mr. Jeff McMichen
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: jmcmichen@geosyntec.com
cc email: csukow@geosyntec.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-38-03
Material(s) Tested:	7 Heat Fusion Weld Seam(s) 2 Single Extrusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-38-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DS-146**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	143	140	136	143	137	140	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	129	131	127	132	130	130	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	151	145	148	144	147	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DS-147**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	133	137	136	133	134	135	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	134	128	134	133	130	132	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	146	142	145	142	145	144	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-38-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DS-148**							
Weld:	**Single Extrusion**							
							Peel	
Side A	Peel Strength (ppi)	140	143	139	140	140	140	78 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	138	140	138	134	141	138	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DS-149**							
Weld:	**Single Extrusion**							
							Peel	
	Peel Strength (ppi)	84	92	93	97	94	92	78 min
	Peel Incursion (%)	<10	<10	<10	<10	<10		
	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	141	140	140	141	143	141	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-38-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DS-150**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	129	118	130	132	137	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	116	111	108	115	109	112	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	152	151	151	151	151	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DS-151**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	126	126	126	125	124	125	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	121	119	120	125	119	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	153	152	154	153	153	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-38-03

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DS-152**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	137	132	137	136	129	134	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	125	124	123	127	124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	155	155	155	156	156	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DS-153**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	128	126	129	131	128	128	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	114	117	119	112	115	115	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	153	153	152	155	153	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-38-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID:	**DS-154**							
	Weld:	**Heat Fusion**							
								Peel A	
Side A	Peel Strength (ppi)		129	123	125	125	123	125	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		125	127	127	126	120	125	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		154	155	155	154	155	155	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
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April 22, 2008

Mail To:

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San Diego, CA 92127

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cc email: csukow@geosyntec.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-42-01
Material(s) Tested:	4 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-42-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DS-155**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	121	136	126	139	125	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	121	125	124	128	130	126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	140	142	144	143	143	142	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DS-156**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	125	133	134	130	132	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	127	128	133	130	131	130	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	145	145	144	147	146	145	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-42-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID: DS-157							
	Weld: Heat Fusion							
Side A	Peel Strength (ppi)	127	117	120	120	119	Peel A 121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	121	121	121	120	120	Peel B 121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	134	137	135	137	139	Shear 136	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
	Sample ID: DS-158							
	Weld: Heat Fusion							
Side A	Peel Strength (ppi)	138	135	141	139	137	Peel A 138	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	129	130	133	130	130	Peel B 130	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	140	142	140	139	143	Shear 141	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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TRI / Environmental, Inc.
A Texas Research International Company

April 28, 2008

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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-50-02
Material(s) Tested:	1 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-50-02

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID:	**DS-159**							
	Weld:	**Heat Fusion**							
								Peel A	
Side A	Peel Strength (ppi)		127	127	126	128	128	127	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		126	121	128	123	125	125	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		156	154	153	152	155	154	121 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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TRI / Environmental, Inc.
A Texas Research International Company

June 6, 2008

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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-12-05
Material(s) Tested:	1 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-12-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID:	**DS-160**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**126/328**	**75-28**	**DC**	**04/04/08**			
								Peel A	
Side A	Peel Strength (ppi)		124	119	113	125	115	119	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		127	137	125	137	122	130	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		149	150	154	150	151	151	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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June 16, 2008

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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-26-10
Material(s) Tested:	8 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-26-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DS-161**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**329/221**	**75-28**	**MGM**	**06/13/08**			
								Peel A	
Side A	Peel Strength (ppi)		143	117	139	134	141	135	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		120	122	123	124	122	122	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		151	153	152	153	153	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DS-162**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**331/329**	**7510**	**RR**	**06/13/08**			
								Peel A	
Side A	Peel Strength (ppi)		130	125	121	126	116	124	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		118	123	112	120	120	119	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		158	157	157	158	154	157	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-26-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DS-163**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**331/330**	**7528**	**MGM**	**06/13/08**			
								Peel A	
Side A	Peel Strength (ppi)		115	107	108	118	105	111	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		129	121	131	126	126	127	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		155	155	154	155	154	155	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DS-164**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**337/334**	**7528**	**MGM**	**06/13/08**			
								Peel A	
Side A	Peel Strength (ppi)		106	125	105	125	103	113	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		120	116	122	122	118	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		139	141	139	141	139	140	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-26-10

			TEST REPLICATE NUMBER						
PARAMETER			**1**	**2**	**3**	**4**	**5**	**MEAN**	**PROJECT SPEC.**
Sample ID:	**DS-165**	**Panel:**	**Machine:**	**Welder:**	**Date:**				
Weld:	**Heat Fusion**	**339/336**	**7510**	**RR**	**06/13/08**				
								Peel A	
Side A	Peel Strength (ppi)		110	119	107	109	115	112	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		108	115	115	111	107	111	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		153	155	152	154	155	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:	**DS-166**	**Panel:**	**Machine:**	**Welder:**	**Date:**				
Weld:	**Heat Fusion**	**341/338**	**7510**	**RR**	**06/13/08**				
								Peel A	
Side A	Peel Strength (ppi)		106	112	93	103	103	103	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		112	114	103	110	110	110	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	153	152	152	153	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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April 30, 2008

Mail To:

Mr. Jeff McMichen
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10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: jmcmichen@geosyntec.com
cc email: csukow@geosyntec.com
cc email: jcox@geosyntec.com
cc email: jpryor@comanco.com
cc email: blibby@comanco.com
cc email: blung@comanco.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-53-09
Material(s) Tested:	25 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-1**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	114	112	112	112	113	113	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	128	114	112	127	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	149	152	151	152	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-2**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	111	109	110	110	110	110	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	116	110	116	112	114	114	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	150	149	150	151	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-3**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	114	125	117	129	130	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	108	108	106	113	111	109	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	153	151	153	152	152	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-4**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	108	105	106	105	106	106	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	132	114	114	127	113	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	152	151	152	151	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-5**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	114	114	113	110	113	113	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	120	119	121	123	120	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	151	150	150	150	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-6**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	117	116	120	119	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	116	129	123	118	122	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	158	159	157	158	154	157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-7**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	128	95	111	126	118	Peel A 116	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	106	112	111	117	113	Peel B 112	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	150	153	150	153	151	Shear 151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-8**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	114	130	117	116	127	Peel A 121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	121	124	123	128	136	Peel B 126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	152	150	150	151	150	Shear 151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-9**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	111	114	120	111	109	113	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	119	116	113	122	117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	147	148	146	148	148	147	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-10**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	116	124	126	113	119	120	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	125	121	122	124	126	124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	148	148	147	148	149	148	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-11**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	127	129	122	130	123	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	128	122	113	117	113	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	147	148	144	148	149	147	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-12**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	116	125	125	116	118	120	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	105	122	119	105	104	111	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	149	149	150	151	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-13**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	120	119	120	120	114	119	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	95	103	100	92	102	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	151	150	151	153	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-14**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	109	107	107	108	105	107	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	116	117	117	120	117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	151	151	147	152	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-15**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	109	101	104	105	119	108	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	137	131	127	135	132	132	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	150	149	149	150	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-16**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	126	128	132	125	128	128	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	135	139	135	104	122	127	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	152	151	150	152	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-17**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	113	115	110	112	110	Peel A: 112	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	108	96	111	106	105	Peel B: 105	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	153	155	154	155	154	Shear: 154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-18**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	110	108	112	112	109	Peel A: 110	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	124	124	120	128	122	Peel B: 124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	150	152	149	150	148	Shear: 150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-19**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	134	130	128	120	122	127	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	120	119	113	123	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	148	150	150	149	149	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-20**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	131	132	131	133	130	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	127	125	121	128	126	125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	151	151	150	151	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-21**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	116	107	108	107	108	109	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	118	116	116	117	114	116	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	151	148	150	149	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-22**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	114	104	103	110	110	108	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	107	108	117	119	115	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	148	150	150	149	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-23**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	136	137	137	135	135	136	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	113	128	115	124	114	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	155	154	155	154	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-24**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	129	127	126	125	123	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	124	120	121	126	123	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	158	157	157	156	158	157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-53-09

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID: DP-25							
	Weld: Heat Fusion							
							Peel A	
Side A	Peel Strength (ppi)	126	134	128	135	133	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	118	116	116	118	117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	152	155	155	156	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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May 2, 2008

Mail To:

Mr. Jeff McMichen
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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-57-08
Material(s) Tested:	34 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-26**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	137	134	137	140	132	136	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	129	121	121	125	129	125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	149	150	149	150	149	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-27**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	129	127	128	129	131	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	137	135	132	129	128	132	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	154	153	153	154	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-28**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	125	120	126	120	130	124	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	122	122	119	120	119	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	150	149	149	151	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-29A**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	110	123	128	128	116	121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	111	115	111	118	115	114	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	152	151	153	153	152	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-29B**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	137	131	132	132	133	133	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	109	108	108	107	110	108	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	148	147	149	148	149	148	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-30**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	126	123	126	133	134	128	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	137	130	120	133	135	131	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	151	151	151	153	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-31**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	133	124	127	126	125	127	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	126	118	117	118	122	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	155	153	153	155	154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-32**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	125	117	117	125	121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	128	123	129	123	122	125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	148	149	148	149	149	149	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-33**							
Weld:	**Heat Fusion**							
							Peel A	
Side A Peel Strength (ppi)		131	128	122	123	129	127	91 min
Side A Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B Peel Strength (ppi)		102	120	122	102	118	113	91 min
Side B Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		151	153	153	153	154	153	121 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:	**DP-34**							
Weld:	**Heat Fusion**							
							Peel A	
Side A Peel Strength (ppi)		121	120	117	115	114	117	91 min
Side A Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B Peel Strength (ppi)		144	130	132	133	135	135	91 min
Side B Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		152	154	153	152	155	153	121 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID: DP-35							
	Weld: Heat Fusion							
Side A	Peel Strength (ppi)	104	115	115	110	115	Peel A: 112	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	114	116	114	120	122	Peel B: 117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	153	151	150	151	150	Shear: 151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
	Sample ID: DP-36							
	Weld: Heat Fusion							
Side A	Peel Strength (ppi)	134	125	126	128	132	Peel A: 129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	124	129	121	130	128	Peel B: 126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	152	149	153	152	149	Shear: 151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-37**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	132	127	130	134	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	120	122	122	121	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	156	156	156	156	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-38**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	124	124	122	124	123	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	87	101	125	123	121	111	91 min
Side B	Peel Incursion (%)	100	100	<10	25	25		
Side B	Peel Locus of Failure Code	AD	AD	SE	AD-BRK	AD-BRK		
Side B	Peel NSF Failure Code	NON-FTB	NON-FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	156	155	156	157	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

		TEST REPLICATE NUMBER						GRI GM19
PARAMETER		1	2	3	4	5	MEAN	SPEC.
Sample ID:	**DP-39**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	124	126	114	130	109	121	91 min
	Peel Incursion (%)	<10	<10	<10	<10	<10		
	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	130	127	121	122	121	124	91 min
	Peel Incursion (%)	<10	<10	<10	<10	<10		
	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	157	157	159	158	157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-40**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	125	126	124	140	136	130	91 min
	Peel Incursion (%)	<10	<10	<10	<10	<10		
	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	135	128	121	119	125	91 min
	Peel Incursion (%)	<10	<10	<10	<10	<10		
	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	156	157	158	157	157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-41**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	136	131	134	131	131	133	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	122	118	118	121	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	155	156	155	155	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-42**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	110	117	119	107	123	115	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	116	122	123	133	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	151	150	150	152	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

		TEST REPLICATE NUMBER						GRI GM19
PARAMETER		1	2	3	4	5	MEAN	SPEC.
Sample ID:	DP-43							
Weld:	Heat Fusion							
							Peel A	
Side A Peel Strength (ppi)		123	120	109	117	114	117	91 min
Side A Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B Peel Strength (ppi)		111	116	118	118	110	115	91 min
Side B Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		148	146	145	148	148	147	121 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:	DP-44							
Weld:	Heat Fusion							
							Peel A	
Side A Peel Strength (ppi)		105	99	91	103	109	101	91 min
Side A Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B Peel Strength (ppi)		115	119	110	116	101	112	91 min
Side B Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		147	147	146	146	149	147	121 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-45**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	124	125	124	124	124	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	137	137	139	136	134	137	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	148	149	150	149	149	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-46**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	120	126	127	125	125	125	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	120	120	113	120	119	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	156	154	158	158	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-47**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	133	132	142	127	134	134	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	121	123	121	125	119	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	159	156	158	157	157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-48**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	127	125	124	125	124	125	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	118	115	121	120	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	139	155	155	157	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-49**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	124	124	125	127	124	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	115	115	114	113	115	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	152	153	153	148	152	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-50**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	113	116	114	116	115	115	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	120	120	113	107	126	117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	151	150	152	151	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-51**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	117	117	112	130	116	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	107	112	109	112	119	112	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	153	155	153	153	154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-52**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	120	115	120	117	111	117	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	110	114	114	115	114	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	161	160	157	160	161	160	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-53**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	109	108	110	110	112	110	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	137	135	134	137	133	135	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	160	161	158	161	161	160	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-54**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	119	114	113	117	115	116	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	113	145	111	138	110	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	156	154	156	156	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-57-08

		TEST REPLICATE NUMBER						GRI GM19
PARAMETER		1	2	3	4	5	MEAN	SPEC.
Sample ID:	**DP-55**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	136	129	129	129	131	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	126	126	125	125	125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	151	149	151	149	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-56**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	103	108	107	106	104	106	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	116	114	118	114	111	115	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	148	148	148	150	149	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-57-08

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-57**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	111	110	110	110	111	Peel A: 110	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	130	120	125	125	131	Peel B: 126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	153	155	154	155	154	Shear: 154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-58**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	132	120	127	125	125	Peel A: 126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	116	111	109	116	115	Peel B: 113	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	151	151	149	150	152	Shear: 151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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May 7, 2008

Mail To:

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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-64-01
Material(s) Tested:	54 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-38A**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	119	118	133	118	121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	147	142	144	142	137	142	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	157	158	157	156	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-38B**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	116	112	120	116	112	115	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	126	122	122	117	127	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	156	155	155	155	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-59**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	97	116	99	125	96	107	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	113	118	111	117	117	115	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	154	152	151	153	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-60**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	117	115	119	118	120	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	114	110	116	118	111	114	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	154	154	154	153	154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-61**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	104	103	103	103	106	104	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	114	118	116	117	116	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	151	150	151	151	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-62**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	139	136	132	128	122	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	131	82	112	115	117	111	91 min
Side B	Peel Incursion (%)	<10	100	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	AD	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	NON-FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	159	156	156	159	157	157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-63**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	112	113	113	115	116	114	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	116	116	119	118	117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	158	160	157	158	158	158	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-64**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	129	118	119	130	125	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	124	121	122	110	119	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	50	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	AD-BRK	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	156	153	154	155	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-65**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	121	124	133	123	124	125	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	116	123	114	123	120	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	144	144	146	146	148	146	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-66**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	113	136	121	120	136	125	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	128	126	123	122	132	126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	155	154	153	155	154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-67**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	117	114	123	131	127	122	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	135	136	120	101	128	124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	50	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	AD-BRK	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	156	155	157	156	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-68**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	111	117	113	109	120	114	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	131	117	125	123	118	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	158	155	156	156	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-69**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	136	139	123	116	130	Peel A: 129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	113	120	124	129	134	Peel B: 124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	151	155	152	154	152	Shear: 153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-70**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	138	128	123	120	131	Peel A: 128	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	133	124	138	119	120	Peel B: 127	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	153	157	155	159	159	Shear: 157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-71**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	124	126	118	121	125	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	132	121	112	125	130	124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	158	160	157	159	158	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-72**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	122	123	126	139	132	128	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	130	134	131	123	126	129	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	161	159	158	157	161	159	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-73**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	126	118	141	135	130	130	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	129	116	127	129	122	125	91 min
Side B	Peel Incursion (%)	<10	50	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	AD-BRK	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	159	161	161	160	162	161	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-74**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	115	132	112	114	114	117	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	128	120	114	116	119	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	159	163	159	160	159	160	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-75**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	123	123	121	122	122	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	124	121	125	118	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	158	153	155	155	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-76**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	134	132	128	143	133	134	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	131	132	131	133	134	132	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	162	160	162	165	167	163	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-77**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	132	147	130	137	132	136	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	129	127	136	133	125	130	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	169	172	169	165	169	169	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-78**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	122	131	128	119	120	124	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	109	112	120	126	112	116	91 min
Side B	Peel Incursion (%)	100	<10	100	<10	<10		
Side B	Peel Locus of Failure Code	AD	SE	AD	SE	SE		
Side B	Peel NSF Failure Code	NON-FTB	FTB	NON-FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	165	169	166	168	167	167	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-79**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	108	126	121	130	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	132	132	136	125	125	130	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	166	166	166	168	170	167	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-80**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	113	114	110	112	112	112	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	107	113	106	111	108	109	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	162	165	162	162	162	163	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-81**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	117	152	137	105	143	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	101	129	112	133	117	118	91 min
Side B	Peel Incursion (%)	100	<10	100	50	<10		
Side B	Peel Locus of Failure Code	AD	SE	AD	AD-BRK	SE		
Side B	Peel NSF Failure Code	NON-FTB	FTB	NON-FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	159	163	160	162	163	161	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-82**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	128	129	138	131	121	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	125	115	68	119	67	99	91 min
Side B	Peel Incursion (%)	<10	<10	100	<10	100		
Side B	Peel Locus of Failure Code	SE	SE	AD	SE	AD		
Side B	Peel NSF Failure Code	FTB	FTB	NON-FTB	FTB	NON-FTB		
							Shear	
	Shear Strength (ppi)	160	161	159	160	161	160	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-83**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	142	141	140	140	142	141	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	128	122	135	123	126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	160	160	159	162	160	160	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-84**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	120	120	124	129	122	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	115	116	116	116	116	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	161	163	158	159	160	160	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-85**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	127	138	138	118	135	131	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	120	119	117	119	117	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	155	154	155	156	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-86A**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	108	132	119	101	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	139	107	113	130	78	113	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	100		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	AD		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	NON-FTB		
							Shear	
	Shear Strength (ppi)	158	160	156	156	153	157	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-86B**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	122	116	117	118	116	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	133	117	122	137	126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	160	157	158	157	158	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-87**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	133	121	131	136	123	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	113	117	105	104	120	112	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	147	147	147	148	148	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-88**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	126	123	121	121	121	122	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	127	119	126	123	128	125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	159	158	155	155	153	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-89**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	122	139	153	142	136	138	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	126	125	128	139	120	128	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	162	161	159	159	161	160	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-90**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	114	135	135	152	136	134	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	124	126	123	116	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	162	163	161	161	160	161	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-91**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	134	112	127	114	122	122	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	118	117	123	118	122	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	155	152	154	152	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-92**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	127	125	144	124	131	130	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	121	135	120	119	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	155	152	153	155	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-93**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	132	124	128	122	130	127	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	124	121	124	122	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	152	152	153	155	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-94**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	133	122	132	122	133	128	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	134	131	121	115	127	126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	159	163	161	160	163	161	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-95**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	116	114	111	117	113	114	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	122	118	119	120	128	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	162	161	161	159	161	161	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-96**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	120	114	114	118	120	117	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	129	128	128	128	129	128	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	155	152	153	152	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-97**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	128	130	132	118	123	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	127	118	126	119	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	153	154	152	154	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-98**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	127	114	118	117	127	121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	120	134	123	130	123	126	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	153	151	153	154	152	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-99**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	111	111	108	111	104	109	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	140	141	140	135	138	139	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	150	150	150	151	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-100**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	140	113	145	129	134	132	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	131	134	132	134	131	132	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	162	162	161	161	163	162	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-101**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	104	124	111	131	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	111	105	113	115	113	111	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	157	154	154	156	155	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

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Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-102**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	122	124	120	118	113	119	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	124	120	123	122	120	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	157	155	156	157	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-103**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	110	110	120	118	116	115	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	113	112	110	111	107	111	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	158	154	155	157	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-104**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	113	117	113	102	110	111	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	116	120	119	119	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	153	151	152	153	152	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-105**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	122	122	118	125	127	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	121	125	114	116	116	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	150	152	150	153	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-106**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	134	119	104	120	116	119	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	111	108	124	109	125	115	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	152	152	152	154	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-107**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	126	115	116	126	120	121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	127	121	118	121	118	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	155	153	153	153	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-64-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-108**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	126	115	137	135	116	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	114	123	119	127	136	124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	152	152	153	155	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-109**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	115	102	111	117	113	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	111	112	107	113	117	112	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	157	155	156	155	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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May 9, 2008

Mail To:

Mr. Jeff McMichen
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cc email: blung@comanco.com
cc email: jhernandez@comanco.net

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-67-06
Material(s) Tested:	17 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Please note, TRI observed scratches parallel to seam welds, possibly made by welding machine. This may have affected test results.

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-110**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	126	123	121	128	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	124	118	115	128	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	154	153	154	154	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-111**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	110	136	126	119	122	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	101	109	102	102	104	104	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	155	152	155	156	154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-112**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	114	109	118	124	114	116	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	132	107	114	103	128	117	91 min
Side B	Peel Incursion (%)	<10	100	25	50	<10		
Side B	Peel Locus of Failure Code	SE	AD	AD-BRK	AD-BRK	SE		
Side B	Peel NSF Failure Code	FTB	NON-FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	153	151	150	152	152	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-113**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	96	93	116	93	106	101	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	108	124	102	116	116	113	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	157	156	155	158	156	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-114**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	124	126	125	131	116	124	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	114	123	110	126	115	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	148	150	148	149	149	149	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-115**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	128	138	133	139	124	132	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	125	122	135	127	132	128	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	140	140	136	141	141	140	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-116**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	114	109	109	110	109	110	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	131	109	111	123	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	152	153	154	156	154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-117**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	121	134	121	136	133	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	122	121	123	131	126	125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	144	147	146	146	146	146	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-118**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	105	134	120	123	120	Peel A: 120	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	126	111	119	110	117	Peel B: 117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	150	150	151	151	154	Shear: 151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-119**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	122	122	110	125	133	Peel A: 122	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	105	121	105	114	105	Peel B: 110	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	148	149	147	148	149	Shear: 148	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-120**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	123	116	121	121	120	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	113	111	124	112	118	116	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	156	152	153	154	154	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-121**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	124	112	110	108	113	113	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	131	128	118	106	132	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	149	153	150	150	150	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-122**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	131	135	137	131	139	135	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	126	116	115	123	117	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	142	149	150	150	150	148	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-123**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	133	126	118	132	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	118	121	119	124	121	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	152	152	153	154	153	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-67-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-124**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	129	124	121	124	123	124	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	126	122	121	122	123	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	148	144	147	147	145	146	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-125**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	117	116	115	119	115	116	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	105	116	123	122	114	116	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	151	151	152	151	151	121 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-67-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID:	**DP-126**							
	Weld:	**Heat Fusion**							
								Peel A	
Side A	Peel Strength (ppi)		126	130	125	126	126	127	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		126	126	132	128	135	129	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		151	154	154	154	155	154	121 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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TRI / Environmental, Inc.
A Texas Research International Company

May 12, 2008

Mail To:

Mr. Jeff McMichen
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: jmcmichen@geosyntec.com
cc email: csukow@geosyntec.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-69-01
Material(s) Tested:	19 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-78A**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	124	119	122	122	121	122	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	125	129	127	120	124	91 min
Side B	Peel Incursion (%)	<10	75	100	100	<10		
Side B	Peel Locus of Failure Code	SE	AD-BRK	AD	AD	SE		
Side B	Peel NSF Failure Code	FTB	FTB	NON-FTB	NON-FTB	FTB		
							Shear	
	Shear Strength (ppi)	162	164	161	162	160	162	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-78B**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	137	125	134	126	136	132	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	132	132	128	134	131	131	91 min
Side B	Peel Incursion (%)	<10	<10	100	<10	100		
Side B	Peel Locus of Failure Code	SE	SE	AD	SE	AD		
Side B	Peel NSF Failure Code	FTB	FTB	NON-FTB	FTB	NON-FTB		
							Shear	
	Shear Strength (ppi)	164	165	163	164	161	163	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-81A**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	145	141	132	136	135	138	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	131	124	127	138	120	128	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	160	163	160	160	159	160	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-81B2**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	135	118	127	129	137	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	122	120	122	122	124	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	161	163	162	160	160	161	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-82A2**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	127	103	112	121	117	Peel A: 116	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	138	121	128	130	133	Peel B: 130	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	157	156	155	158	157	Shear: 157	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-82B**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	123	125	126	128	132	Peel A: 127	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	125	126	120	123	121	Peel B: 123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	167	168	165	167	166	Shear: 167	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-127**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	119	121	116	114	123	119	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	121	120	115	113	119	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	153	153	153	154	154	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-128**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	131	120	134	122	127	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	111	114	119	112	115	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	147	148	147	148	148	148	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-129**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	124	127	121	126	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	112	119	110	116	113	114	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	148	151	150	149	150	150	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-130**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	127	126	126	130	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	134	132	130	124	124	129	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	156	154	158	155	155	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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Material: HDPE
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TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-131**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	131	123	128	129	111	124	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	126	123	129	117	122	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	156	155	155	155	155	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-132**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	112	110	113	113	113	112	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	121	122	119	119	125	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	147	151	154	152	151	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-133**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	124	126	117	121	128	Peel A: 123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	133	127	120	123	121	Peel B: 125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	150	151	150	151	151	Shear: 151	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-134**							
Weld:	**Heat Fusion**							
Side A	Peel Strength (ppi)	132	117	125	131	131	Peel A: 127	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)	119	119	115	116	118	Peel B: 117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)	144	140	149	147	142	Shear: 144	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-135**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	131	125	140	120	128	129	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	112	106	129	127	106	116	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	156	153	154	154	154	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-136**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	118	119	115	118	116	117	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	118	115	117	119	120	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	154	145	153	152	151	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	DP DS-137							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	113	121	120	113	123	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	95	131	75	130	114	109	91 min
Side B	Peel Incursion (%)	100	<10	100	<10	<10		
Side B	Peel Locus of Failure Code	AD	SE	AD	SE	SE		
Side B	Peel NSF Failure Code	NON-FTB	FTB	NON-FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	161	158	158	159	160	159	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	DP DS-138							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	128	122	125	120	122	123	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	110	123	127	126	123	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	155	154	154	154	154	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-69-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DS-139**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	127	127	127	127	128	127	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	133	125	125	137	124	129	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	146	152	149	149	149	149	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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May 13, 2008

Mail To:

Mr. Jeff McMichen
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: jmcmichen@geosyntec.com
cc email: csukow@geosyntec.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-71-01
Material(s) Tested:	13 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-71-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-141**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	119	116	122	121	119	119	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	103	87	99	103	128	104	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	137	134	135	150	141	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-142**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	137	127	106	105	123	120	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	122	110	115	116	116	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	151	153	154	151	151	152	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-71-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-143**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	123	131	126	122	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	128	126	127	125	121	125	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	156	156	155	156	155	156	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-144**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	145	143	142	121	142	139	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	137	129	131	133	126	131	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	153	153	153	154	153	153	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-71-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-145**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	116	117	121	120	117	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	122	118	126	119	122	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	154	154	157	154	155	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-146**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	115	124	125	111	118	119	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	104	112	128	104	104	110	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	153	151	153	155	153	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-71-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-147**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	101	112	109	114	108	109	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	105	112	104	109	113	109	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	126	125	135	125	128	128	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-148**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	117	111	120	126	114	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	120	115	117	116	121	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	143	150	142	149	152	147	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-71-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-149**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	121	124	124	121	121	122	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	133	131	133	101	120	124	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	153	153	152	155	153	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-150**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	117	129	107	113	127	119	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	118	125	120	120	112	119	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	119	124	121	126	124	123	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-71-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-151**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	123	122	125	114	121	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	118	122	118	117	114	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	144	137	132	142	137	138	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-112A**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	129	112	113	122	125	120	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	120	122	121	120	120	121	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	149	148	150	148	149	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-71-01

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	DP-112B							
Weld:	Heat Fusion							
							Peel A	
Side A	Peel Strength (ppi)	101	111	100	103	105	104	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	116	116	112	114	113	114	91 min
Side B	Peel Incursion (%)	<10	<10	25	<10	25		
Side B	Peel Locus of Failure Code	SE	SE	AD-BRK	SE	AD-BRK		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	155	155	153	152	154	154	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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GeosyntheticTesting.com
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May 15, 2008

Mail To:

Mr. Jeff McMichen
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: jmcmichen@geosyntec.com
cc email: csukow@geosyntec.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-75-05
Material(s) Tested:	4 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Melissa Hunter

Melissa Hunter
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-75-05

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-78A2**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	143	141	141	131	136	138	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	101	126	116	122	126	118	91 min
Side B	Peel Incursion (%)	100	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	AD	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	NON-FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	168	166	166	170	163	167	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-137A**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	120	141	133	120	124	128	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	116	120	122	115	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	156	156	157	153	156	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-75-05

		TEST REPLICATE NUMBER						GRI GM19
PARAMETER		**1**	**2**	**3**	**4**	**5**	**MEAN**	**SPEC.**
Sample ID:	**DP-137B**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	148	134	128	151	139	140	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	114	113	73	116	118	107	91 min
Side B	Peel Incursion (%)	<10	25	100	<10	<10		
Side B	Peel Locus of Failure Code	SE	AD-BRK	AD	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	NON-FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	148	149	148	146	148	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-140**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	130	123	128	126	125	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	116	118	115	120	120	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	143	139	141	137	140	140	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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May 16, 2008

Mail To:

Mr. Jeff McMichen
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: jmcmichen@geosyntec.com
cc email: csukow@geosyntec.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-78-06
Material(s) Tested:	6 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-78-06

		TEST REPLICATE NUMBER						
PARAMETER		**1**	**2**	**3**	**4**	**5**	**MEAN**	**GRI GM19 SPEC.**
Sample ID:	**DP-152**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	120	117	119	116	117	118	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	117	129	112	118	124	120	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	149	150	154	143	154	150	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-153**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	105	119	108	116	115	113	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	128	99	129	102	130	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	160	161	159	159	159	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-78-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-154**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	124	126	117	120	112	120	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	131	109	125	107	117	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	150	151	149	149	149	150	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-155**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	112	124	122	101	118	115	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	118	104	121	112	111	113	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	152	149	150	151	151	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-78-06

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-156**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	111	112	111	113	115	112	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	115	112	126	94	122	114	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	157	155	155	154	156	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-157**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	113	111	110	110	110	111	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	124	139	124	128	120	127	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	150	150	150	152	151	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

May 19, 2008

Mail To:

Mr. Jeff McMichen
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10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: jmcmichen@geosyntec.com
cc email: csukow@geosyntec.com

Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-80-10
Material(s) Tested:	5 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
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www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-80-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-137B2**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	106	107	105	106	102	105	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	105	113	104	109	113	109	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	154	156	152	156	154	154	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-158**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	113	113	119	114	116	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	121	123	121	124	124	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	148	144	145	152	145	147	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-80-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-159**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	119	104	107	105	104	108	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	119	118	116	120	116	118	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	157	156	156	155	152	155	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-160**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	115	112	100	115	125	113	91 min
Side A	Peel Incursion (%)	<10	<10	50	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	AD-BRK	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	103	119	104	124	109	112	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	160	157	159	158	159	159	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2310-80-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
	Sample ID: DP-161							
	Weld: Heat Fusion							
							Peel A	
Side A	Peel Strength (ppi)	151	142	134	128	131	137	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	132	132	127	139	128	132	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	152	148	155	145	150	150	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

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TRI / Environmental, Inc.
A Texas Research International Company

May 20, 2008

Mail To:

Mr. Jeff McMichen
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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-82-10
Material(s) Tested:	2 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2310-82-10

	PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	GRI GM19 SPEC.
Sample ID:	**DP-162**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	125	126	129	122	128	126	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	123	124	121	124	122	123	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	146	141	143	143	145	144	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		
Sample ID:	**DP-163**							
Weld:	**Heat Fusion**							
							Peel A	
Side A	Peel Strength (ppi)	123	113	106	122	105	114	91 min
Side A	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B	Peel Strength (ppi)	129	102	104	119	118	114	91 min
Side B	Peel Incursion (%)	<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code	SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code	FTB	FTB	FTB	FTB	FTB		
							Shear	
	Shear Strength (ppi)	147	142	139	140	140	142	120 min
	Shear Elongation @ Break (%)	>50	>50	>50	>50	>50		

Note: TRI observed scratches parallel to seam weld, possibly made by welding machine. This may have affected test results.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-26-10

			TEST REPLICATE NUMBER						PROJECT
PARAMETER			1	2	3	4	5	MEAN	SPEC.
Sample ID:		**DP-165**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**335/334**	**7529**	**RR**	**06/12/08**			
								Peel A	
Side A	Peel Strength (ppi)		127	126	126	127	125	126	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		136	136	104	113	129	124	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	151	150	151	149	150	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:		**DP-166**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**331/330**	**7529**	**RR**	**06/12/08**			
								Peel A	
Side A	Peel Strength (ppi)		107	115	109	115	109	111	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		141	108	98	98	102	109	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		153	155	155	153	155	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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TRI / Environmental, Inc.
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June 18, 2008

Mail To:

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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-30-04
Material(s) Tested:	1 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

TRI / Environmental, Inc.
A Texas Research International Company

DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-30-04

	PARAMETER	DP	TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	~~DS-168~~	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**323/324**	**7529**	**DC**	**06/16/08**			
								Peel A	
Side A	Peel Strength (ppi)		127	111	110	109	104	112	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		113	108	109	109	113	110	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		139	139	141	137	135	138	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DP-170**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**367/260**	**7528**	**MGM**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		136	133	128	139	134	134	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		126	132	132	125	133	130	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		152	155	152	147	155	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DP-171**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**368/367**	**7510**	**RR**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		115	113	116	114	112	114	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		119	121	123	126	113	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		154	154	154	154	151	153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DP-172**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**372/371**	**7529**	**DC**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		120	118	116	123	124	120	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		116	118	115	115	115	116	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		155	153	153	154	153	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DP-173**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**374/373**	**7510**	**RR**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		115	113	123	122	117	118	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		132	124	127	132	129	129	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	152	151	153	153	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DP-174**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**376/375**	**7510**	**RR**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		132	130	131	128	127	130	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		129	126	126	126	133	128	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		155	154	155	154	154	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DP-175**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**379/378**	**7529**	**DC**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		125	125	123	130	117	124	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		145	144	138	145	143	143	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		157	156	155	154	155	155	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DP-176**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**362/361**	**7528**	**GGM**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		109	120	115	115	121	116	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		130	110	120	123	124	121	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		152	149	150	149	150	150	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DP-177**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**360/359**	**7528**	**GGM**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		127	116	117	118	134	122	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		143	115	141	122	138	132	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	150	147	150	149	149	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

			TEST REPLICATE NUMBER						PROJECT
PARAMETER			1	2	3	4	5	MEAN	SPEC.
Sample ID:		**DP-178**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**364/363**	**7510**	**RR**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		126	114	115	117	106	116	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		119	107	106	117	107	111	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		151	150	152	148	151	150	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:		**DP-179A**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**364/363**	**7510**	**RR**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		116	114	110	111	112	113	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		139	125	131	126	128	130	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		146	157	152	152	152	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DP-179B**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**356/355**	**7510**	**RR**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		110	103	107	109	107	107	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		111	110	109	114	110	111	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		153	155	152	154	154	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DP-180**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**352/353**	**7528**	**GGM**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		126	132	118	141	129	129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		121	134	114	131	117	123	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		149	146	145	145	148	147	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DP-181**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**337/338**	**7529**	**DC**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		132	132	134	134	134	133	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		141	138	137	139	141	139	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	146	145	144	143	145	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DP-182**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**339/338**	**7529**	**DC**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		125	124	128	128	122	125	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		122	120	116	125	115	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		154	152	153	154	153	153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DP-183**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**341/339**	**7528**	**GGM**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		130	130	130	132	122	129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		122	119	119	120	120	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		156	155	155	155	153	155	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DS-184**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**343/340**	**7510**	**RR**	**06/19/08**			
								Peel A	
Side A	Peel Strength (ppi)		110	113	109	113	121	113	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		113	107	109	130	117	115	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		153	159	152	153	152	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

		TEST REPLICATE NUMBER						
PARAMETER		1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:	**DS-185**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:	**Heat Fusion**	**365/364**	**7510**	**RR**	**06/19/08**			
							Peel A	
Side A Peel Strength (ppi)		132	115	114	118	119	120	91 min
Side A Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B Peel Strength (ppi)		129	140	136	133	129	133	91 min
Side B Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		152	153	152	153	152	152	120 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:	**DS-186**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:	**Heat Fusion**	**380/365**	**7529**	**DC**	**06/19/08**			
							Peel A	
Side A Peel Strength (ppi)		140	118	125	125	123	126	91 min
Side A Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B Peel Strength (ppi)		127	127	131	128	141	131	91 min
Side B Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		150	146	148	149	146	148	120 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-1**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**278/C18**	**7535**	**GGM**	**06/20/08**			
Side A	Peel Strength (ppi)		127	122	130	126	114	Peel A 124	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		118	122	121	116	100	Peel B 115	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		143	144	148	146	143	Shear 145	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-2**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**282/C21**	**7535**	**GGM**	**06/20/08**			
Side A	Peel Strength (ppi)		125	123	123	125	126	Peel A 124	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		128	118	125	118	121	Peel B 122	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		156	159	159	161	159	Shear 159	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-3**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**287/C19**	**7535**	**GGM**	**06/20/08**			
								Peel A	
Side A	Peel Strength (ppi)		129	123	129	128	121	126	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		119	118	116	113	113	116	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	149	151	152	152	150	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-4**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**51/C51**	**7528**	**PC**	**06/20/08**			
								Peel A	
Side A	Peel Strength (ppi)		122	126	130	130	125	127	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		128	120	131	130	119	126	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		152	148	151	152	150	151	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-39-03

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-5**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**50/C50**	**7528**	**PC**	**06/20/08**			
								Peel A	
Side A	Peel Strength (ppi)		114	114	116	117	133	119	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		129	121	115	119	119	121	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		152	153	152	153	156	153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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June 24, 2008

Mail To:

Mr. Jeff McMichen
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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-40-01
Material(s) Tested:	8 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-40-01

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-6**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**47/C-25**	**7510**	**RR**	**06/20/08**			
								Peel A	
Side A	Peel Strength (ppi)		127	127	127	122	127	126	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		117	120	116	114	121	118	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		175	175	175	177	176	176	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-7**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**46/C25**	**7510**	**RR**	**06/20/08**			
								Peel A	
Side A	Peel Strength (ppi)		117	118	123	112	115	117	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		125	124	109	111	118	117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		153	155	153	153	155	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-40-01

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-8**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**44/C27**	**7510**	**RR**	**06/20/08**			
Side A	Peel Strength (ppi)		114	113	120	124	123	Peel A 119	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		126	122	123	123	118	Peel B 122	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		152	152	154	154	155	Shear 153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-9**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**43/C27**	**7510**	**RR**	**06/20/08**			
Side A	Peel Strength (ppi)		113	125	125	114	126	Peel A 121	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		118	109	127	119	121	Peel B 119	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		151	152	151	152	150	Shear 151	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-40-01

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-10**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**41/C28**	**7525**	**RR**	**06/20/08**			
								Peel A	
Side A	Peel Strength (ppi)		133	129	130	131	133	131	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		113	116	108	112	108	111	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	152	153	153	154	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-11**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**40/C28**	**7525**	**RR**	**06/20/08**			
								Peel A	
Side A	Peel Strength (ppi)		122	110	112	122	114	116	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		124	116	114	117	113	117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		153	154	153	154	153	153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-40-01

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-12**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C29/35**	**7528**	**PC**	**06/21/08**			
								Peel A	
Side A	Peel Strength (ppi)		134	131	129	124	123	128	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		120	125	118	120	118	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		153	152	154	152	154	153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-14**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	eld:	**Heat Fusion**	**306/C38**	**7535**	**GGM**	**06/21/08**			
								Peel A	
Side A	Peel Strength (ppi)		120	119	122	123	124	122	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		117	109	115	117	111	114	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		149	149	148	147	149	148	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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June 24, 2008

Mail To:

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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-39-03
Material(s) Tested:	23 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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TRI / Environmental, Inc.
A Texas Research International Company

June 25, 2008

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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-43-05
Material(s) Tested:	15 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-13**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**34/29**	**7528**	**PC**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		113	121	115	113	127	118	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		102	105	102	104	103	103	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		139	138	138	141	142	140	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-15**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**179/C45**	**7535**	**GGM**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		107	111	112	106	109	109	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		108	113	108	122	116	113	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		146	145	132	145	144	142	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-16**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**191/C48**	**7535**	**GGM**	**06/23/08**			
Side A	Peel Strength (ppi)		111	127	123	109	128	Peel A 120	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		113	115	114	109	118	Peel B 114	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		144	147	145	146	147	Shear 146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-17**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**30/C30**	**7528**	**PC**	**06/23/08**			
Side A	Peel Strength (ppi)		125	121	124	122	124	Peel A 123	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		119	111	119	115	114	Peel B 116	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		137	140	139	141	139	Shear 139	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

			TEST REPLICATE NUMBER						
PARAMETER			1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:		**DPR-18**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**C30/31**	**7528**	**PC**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		120	122	127	127	128	125	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		105	109	124	114	108	112	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		144	143	143	143	143	143	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:		**DPR-19**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**30/C30**	**7528**	**PC**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		125	128	127	141	138	132	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		103	122	104	118	116	113	91 min
	Peel Incursion (%)		<10	<10	<10	<10	<10		
	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		144	144	145	142	141	143	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-20**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C31/27**	**7529**	**RR**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		125	124	123	121	127	124	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		119	120	113	111	118	116	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		147	145	145	145	145	145	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-21**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**26/C31**	**7529**	**RR**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		112	116	128	118	117	118	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		120	112	119	123	122	119	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		140	142	141	142	144	142	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-22**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C41/23**	**7528**	**PC**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		132	127	131	135	133	132	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		121	124	121	122	120	122	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		147	146	145	146	148	146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-23**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**22/C41**	**7528**	**PC**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		127	129	126	126	124	126	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		112	110	110	111	109	110	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		145	145	144	143	141	144	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-24**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C42/17**	**7510**	**RR**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		124	128	121	124	128	125	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		132	116	125	125	115	123	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		142	142	141	143	143	142	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-25**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**16/C42**	**7510**	**RR**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		116	110	110	115	109	112	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		110	110	114	104	100	108	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		139	138	140	140	141	140	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-26**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C49/13**	**7510**	**RR**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		115	117	107	129	110	116	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		105	124	123	127	119	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		142	143	142	142	142	142	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-28**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C50/9**	**7528**	**PC**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		119	113	119	118	122	118	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		119	121	117	121	129	121	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		144	145	143	144	144	144	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-43-05

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-29**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**8/C50**	**7528**	**PC**	**06/23/08**			
								Peel A	
Side A	Peel Strength (ppi)		136	119	135	117	117	125	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		101	108	125	109	94	107	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	90		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	AD-BRK		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		137	138	136	137	137	137	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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June 26, 2008

Mail To:

Mr. Jeff McMichen
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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-44-06
Material(s) Tested:	33 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-27A**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		124	110	108	118	108	114	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		126	126	110	129	116	121	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	148	149	150	150	149	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-27B**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		108	132	118	125	123	121	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		118	119	121	138	139	127	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		146	148	144	146	145	146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-30**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**277/C18**	**7535**	**GGM**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		119	114	121	130	106	118	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		115	133	113	126	116	121	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		147	147	145	148	146	147	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-31**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**296/C34**	**7535**	**GGM**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		127	126	121	118	122	123	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		127	123	124	130	133	127	91 min
Side B	Peel Incursion (%)		<10	50	75	50	<10		
Side B	Peel Locus of Failure Code		SE	AD-BRK	AD-BRK	AD-BRK	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		152	151	151	152	152	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-32**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**309/C39**	**7535**	**GGM**	**06/24/08**			
Side A	Peel Strength (ppi)		127	120	118	121	125	Peel A: 122	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		117	128	124	128	102	Peel B: 120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		154	151	151	153	153	Shear: 152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-33**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**261/C43**	**7535**	**GGM**	**06/24/08**			
Side A	Peel Strength (ppi)		120	118	124	123	121	Peel A: 121	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		121	116	118	117	115	Peel B: 117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		148	148	148	148	148	Shear: 148	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-34**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**194/C55**	**7535**	**GGM**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		125	123	125	129	129	126	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		115	111	118	117	114	115	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	150	149	150	151	150	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-35**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**203/C58**	**7535**	**GGM**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		126	121	120	123	125	123	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		116	116	119	119	116	117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		161	160	158	159	159	159	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-36**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**41/C28**	**7529**	**RR**	**06/24/08**			
Side A	Peel Strength (ppi)		121	123	124	124	125	Peel A 123	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		123	120	124	125	118	Peel B 122	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		146	144	142	145	145	Shear 144	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-37**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C25/46**	**7510**	**RR**	**06/24/08**			
Side A	Peel Strength (ppi)		131	121	115	115	116	Peel A 120	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		124	132	116	125	125	Peel B 124	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		147	146	144	145	143	Shear 145	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-38**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**52/C51**	**7528**	**PC**	**06/24/08**			
Side A	Peel Strength (ppi)		131	129	129	132	127	Peel A 130	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		119	120	110	111	112	Peel B 114	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		147	146	145	145	144	Shear 145	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-39**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**266/C14**	**7525**	**PC**	**06/24/08**			
Side A	Peel Strength (ppi)		112	105	109	124	110	Peel A 112	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		107	106	105	105	104	Peel B 105	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		155	153	152	154	152	Shear 153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-40**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**321/C12**	**7525**	**PC**	**06/24/08**			
Side A	Peel Strength (ppi)		114	121	118	122	123	Peel A 120	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		115	119	120	122	125	Peel B 120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		133	144	147	145	144	Shear 143	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-41**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**273/C12**	**7525**	**PC**	**06/24/08**			
Side A	Peel Strength (ppi)		127	134	132	131	129	Peel A 131	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		127	130	121	120	117	Peel B 123	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		143	144	145	143	144	Shear 144	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-42**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**269/C14**	**7525**	**PC**	**06/24/08**			
Side A	Peel Strength (ppi)		128	123	128	124	127	Peel A 126	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		133	109	109	113	126	Peel B 118	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		149	149	147	150	149	Shear 149	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-43**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**306/C12**	**7525**	**PC**	**06/24/08**			
Side A	Peel Strength (ppi)		120	122	122	124	125	Peel A 123	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		123	121	124	125	121	Peel B 123	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		142	143	142	142	141	Shear 142	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-44**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C15/265**	**7525**	**PC**	**06/24/08**			
Side A	Peel Strength (ppi)		126	132	128	127	130	Peel A 129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		112	122	117	109	126	Peel B 117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		142	143	142	144	145	Shear 143	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-45**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C54/75**	**7525**	**JC**	**06/24/08**			
Side A	Peel Strength (ppi)		128	125	131	126	124	Peel A 127	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		114	121	122	121	122	Peel B 120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		139	141	142	144	140	Shear 141	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-46**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**50/C54**	**7525**	**JC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		130	128	129	123	132	128	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		126	123	124	127	122	124	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		152	153	155	151	148	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-47**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C54/87**	**7525**	**JC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		132	129	128	132	132	131	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		125	126	126	123	125	125	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	149	149	148	149	149	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-48**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**44/C54**	**7525**	**JC**	**06/24/08**			
Side A	Peel Strength (ppi)		123	122	121	122	121	Peel A 122	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		132	126	126	123	126	Peel B 127	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		140	135	133	141	137	Shear 137	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-49**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**212/C59**	**7535**	**GGM**	**06/24/08**			
Side A	Peel Strength (ppi)		128	125	127	134	131	Peel A 129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		120	119	117	118	120	Peel B 119	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		146	149	147	146	147	Shear 147	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-50**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C54**	**7510**	**JC**	**06/24/08**			
Side A	Peel Strength (ppi)		136	124	124	136	127	Peel A 129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		127	137	135	129	125	Peel B 131	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		143	144	145	144	146	Shear 144	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-51**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C54/146**	**7525**	**JC**	**06/24/08**			
Side A	Peel Strength (ppi)		127	120	119	120	122	Peel A 122	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		120	122	117	120	128	Peel B 121	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		138	143	141	141	140	Shear 141	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-52**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**5/C52**	**7528**	**PC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		116	110	129	108	113	115	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		115	106	109	110	103	109	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	145	145	145	145	146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-53**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C52/6**	**7528**	**PC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		109	114	124	125	126	120	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		111	112	122	127	126	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		145	145	145	147	145	145	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-54**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**5/C52**	**7528**	**PC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		110	111	109	111	110	110	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		105	107	104	105	106	105	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		149	151	151	149	149	150	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-55**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**4/C54**	**7525**	**JC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		129	129	131	130	128	129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		124	125	119	133	126	125	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		146	148	148	147	141	146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-56**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C54/162**	**7525**	**JC**	**06/24/08**			
Side A	Peel Strength (ppi)		129	127	125	124	124	Peel A: 126	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		126	121	124	123	124	Peel B: 124	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		137	134	136	138	135	Shear: 136	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-57**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**2/C16**	**7510**	**RR**	**06/24/08**			
Side A	Peel Strength (ppi)		121	114	111	115	113	Peel A: 115	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
Side B	Peel Strength (ppi)		113	120	114	122	118	Peel B: 117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
	Shear Strength (ppi)		146	147	147	147	145	Shear: 146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-58**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**3/C16**	**7510**	**RR**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		132	123	129	131	128	129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		120	107	112	123	118	116	91 min
Side B	Peel Incursion (%)		<10	<10	<10	25	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	AD-BRK	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		147	145	146	146	145	146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-61**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C17/167**	**7525**	**JC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		128	123	124	122	128	125	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		108	106	104	108	110	107	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	150	148	149	150	149	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-44-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-63**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**C17/159**	**7528**	**PC**	**06/24/08**			
								Peel A	
Side A	Peel Strength (ppi)		129	129	128	128	124	128	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		111	122	122	116	119	118	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		149	146	147	148	148	148	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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June 27, 2008

Mail To:

Mr. Jeff McMichen
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Bill To:

<= Same
Job # : SC-0349

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-45-10
Material(s) Tested:	13 Heat Fusion Weld Seam(s) 2 Single Extrusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer T. Tenney

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-45-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-59**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		119	116	124	124	121	121	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		127	123	107	121	108	117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	153	152	154	152	152	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-60**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		125	117	119	120	118	120	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		124	127	115	123	108	119	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	148	148	147	148	148	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-45-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:		**DPR-62**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		119	124	122	120	116	120	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		112	116	117	117	114	115	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	149	149	151	149	149	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:		**DPR-64**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		133	132	127	123	132	129	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		118	120	122	120	116	119	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		147	148	146	148	148	147	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-45-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-65**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		123	121	120	125	123	122	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		127	122	124	121	121	123	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		143	142	142	145	143	143	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-66**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		104	103	107	111	104	106	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		116	111	106	104	108	109	91 min
Side B	Peel Incursion (%)		<10	95	95	<10	<10		
Side B	Peel Locus of Failure Code		SE	AD-BRK	AD-BRK	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		147	144	144	145	142	144	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-45-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:		**DPR-67**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		118	124	122	122	119	121	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		115	114	115	114	114	114	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		146	145	148	149	148	147	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:		**DPR-68**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		142	135	138	138	139	138	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		139	133	131	136	125	133	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		144	143	143	139	139	142	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-45-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:		**DPR-69**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		132	130	131	129	131	131	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		116	112	110	113	116	113	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		145	146	147	145	147	146	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:		**DPR-70**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		120	116	122	123	122	121	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		124	127	120	123	121	123	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		137	139	141	140	141	140	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-45-10

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:	**DPR-71**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
							Peel	
Peel Strength (ppi)		88	84	113	87	108	96	78 min
Peel Incursion (%)		<10	<10	<10	<10	<10		
Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		142	142	142	141	143	142	120 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:	**DPR-72**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
							Peel A	
Side A: Peel Strength (ppi)		119	120	117	117	115	118	91 min
Side A: Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A: Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A: Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Peel B	
Side B: Peel Strength (ppi)		110	117	121	115	110	115	91 min
Side B: Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B: Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B: Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		151	149	150	151	153	151	120 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-45-10

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-73**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		116	118	126	116	119	119	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		130	118	110	125	125	122	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		148	151	152	152	151	151	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-74**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
								Peel A	
Side A	Peel Strength (ppi)		118	116	117	117	117	117	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		113	124	129	125	97	118	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		149	153	153	153	155	153	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE
SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)
TRI Log #: E2312-45-10

PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:	**DPR-75**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:	**Heat Fusion**	**12/C49**	**7510**	**RR**	**06/25/08**			
							Peel	
Peel Strength (ppi)		101	111	125	108	103	110	78 min
Peel Incursion (%)		<10	<10	<10	<10	<10		
Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
							Shear	
Shear Strength (ppi)		148	149	150	148	149	149	120 min
Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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June 30, 2008

Mail To:

Mr. Jeff McMichen
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
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cc email: jpryor@comanco.com
cc email: blibby@comanco.com
cc email: blung@comancio.com

Bill To:

<= Same
Job # : SC-0349 02/03

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-50-02
Material(s) Tested:	4 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-50-02

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-31A**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**296/C34**	**7535**	**GGM**	**06/27/08**			
								Peel A	
Side A	Peel Strength (ppi)		125	127	129	130	120	126	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		103	107	111	109	110	108	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		157	156	156	157	156	156	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-31B**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**292/C33**	**7535**	**GGM**	**06/27/08**			
								Peel A	
Side A	Peel Strength (ppi)		118	117	118	118	118	118	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		114	117	109	112	112	113	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		149	148	147	148	147	148	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-50-02

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
Sample ID:		**DPR-76**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**262/C76**	**7525**	**JC**	**06/27/08**			
								Peel A	
Side A	Peel Strength (ppi)		122	122	119	119	114	119	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		114	116	114	116	114	115	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		150	149	150	149	147	149	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
Sample ID:		**DPR-77**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
Weld:		**Heat Fusion**	**61/C76**	**7525**	**JC**	**06/27/08**			
								Peel A	
Side A	Peel Strength (ppi)		113	111	121	111	114	114	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		114	112	123	120	114	117	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		155	154	152	154	155	154	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

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TABLE 02770-2
REQUIRED GEOMEMBRANE SEAM PROPERTIES

PROPERTIES	QUALIFIERS	UNITS	SPECIFIED VALUES[3]	TEST METHOD
Shear Strength[1]				
Fusion	minimum	lb/in	120	ASTM D 6392
Extrusion	minimum	lb/in	120	ASTM D 6392
Peel Adhesion				
FTB[2]				Visual Observation
Fusion	minimum	lb/in	91	ASTM D 6392
Extrusion	minimum	lb/in	78	ASTM D 6392

Notes: (1) Also called "Bonded Seam Strength".
(2) FTB = Film Tear Bond means that failure is in the parent material, not the seam. The maximum seam separation is 25 percent of the seam area.
(3) Four of five specimens per destructive sample must pass both the shear and peel strength tests.

[END OF SECTION]

TRI / Environmental, Inc.
A Texas Research International Company

July 1, 2008

Mail To:

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Bill To:

<= Same
Job # : SC-0349 02/03

Dear Mr. McMichen:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2312-51-06
Material(s) Tested:	2 Heat Fusion Weld Seam(s)
Test(s) Requested:	SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

Codes	
AD	Adhesion failure (100% Peel)
BRK	Break in sheeting away from Seam edge
SE	Break in sheeting at edge of seam
AD-BRK	Break in sheeting after some adhesion failure - partial peel
SIP	Separation in the plane of the sheet (leaving the bond intact)
FTB	Film tearing bond (all non "AD" failures)
NON-FTB	100% peel

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jennifer Tenney
Project Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

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DESTRUCTIVE SEAM QUALITY ASSURANCE TEST RESULTS

TRI Client: Geosyntec Consultants

Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: 60 mil HDPE

SAME DAY Peel and Shear (ASTM D 6392/GRI GM19/D 4437/NSF 54)

TRI Log #: E2312-51-06

	PARAMETER		TEST REPLICATE NUMBER 1	2	3	4	5	MEAN	PROJECT SPEC.
	Sample ID:	**DPR-66A**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**93/CS-2**	**7510**	**RR**	**06/27/08**			
								Peel A	
Side A	Peel Strength (ppi)		133	129	97	124	120	121	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		129	111	133	98	128	120	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		144	142	144	142	142	143	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		
	Sample ID:	**DPR-66B**	**Panel:**	**Machine:**	**Welder:**	**Date:**			
	Weld:	**Heat Fusion**	**97/CS-14**	**7510**	**RR**	**06/27/08**			
								Peel A	
Side A	Peel Strength (ppi)		127	134	133	134	125	131	91 min
Side A	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side A	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side A	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Peel B	
Side B	Peel Strength (ppi)		127	118	129	127	121	124	91 min
Side B	Peel Incursion (%)		<10	<10	<10	<10	<10		
Side B	Peel Locus of Failure Code		SE	SE	SE	SE	SE		
Side B	Peel NSF Failure Code		FTB	FTB	FTB	FTB	FTB		
								Shear	
	Shear Strength (ppi)		143	143	142	143	142	143	120 min
	Shear Elongation @ Break (%)		>50	>50	>50	>50	>50		

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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APPENDIX G

NON-WOVEN GEOTEXTILE

APPENDIX G-1

CQA CONFORMANCE RESULTS

May 30, 2008

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Road, Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com cc email: jpryor@comanco.com cc email: cfore@comanco.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-96-07
Material(s) Tested:	1 SKAPS 16 oz Nonwoven Geotextile(s)
Test(s) Requested:	Mass/Unit Area (ASTM D 5261) Grab Tensile (ASTM D 4632) Puncture Strength (ASTM D 4833) Apparent Opening Size (ASTM D 4751) Permittivity (ASTM D 4491)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

MPatel

Dr. Mansukh Patel
Sr. Laboratory Coordinator
Geosynthetic Services Division
www.GeosyntheticTesting.com

cc: Sam R. Allen, Vice President and Division Manager

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEOTEXTILE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: SKAPS GE116 Nonwoven Geotextile
Sample Identification: 020136276
TRI Log #: E2310-96-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Mass/Unit Area (ASTM D 5261)												
5" diameter circle (grams)	7.99	8.26	8.20	8.13	7.95	8.45	8.62	8.34	7.67	8.21	**8.18**	0.27
Mass/Unit Area (oz/sq.yd)	18.58	19.21	19.07	18.91	18.49	19.65	20.05	19.40	17.84	19.10	**19.03**	0.63
Grab Tensile Properties (ASTM D 4632)												
MD - Tensile Strength (lbs)	608	626	617	537	617	665	559	617	635	595	**608**	37
TD - Tensile Strength (lbs)	841	689	770	712	754	817	638	762	739	760	**748**	59
MD - Elong. @ Max. Load (%)	93	105	93	90	97	96	97	91	94	95	**95**	4
TD - Elong. @ Max. Load (%)	103	99	98	102	105	109	95	106	99	107	**102**	4
Puncture Resistance (ASTM D 4833)												
Puncture Strength (lbs)	355	299	306	329	322	301	333	317	318	324	**322**	17
	338	310	303	319	351							
Apparent Opening Size (ASTM D 4751)												
Opening Size Diameter (mm)	0.075	0.075	0.075	0.075	0.075						**0.075**	0.000
Sieve No.	200	200	200	200	200						**200**	

MD Machine Direction TD Transverse Direction

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GEOTEXTILE TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: SKAPS GE116 Nonwoven Geotextile
Sample Identification: 020136276
TRI Log #: E2310-96-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Constant Head Permittivity (ASTM D 4491, 2 in Constant Head)												
Water Temp. (C):	20											
Correction Factor:	1.000											
Trial =>:			1					2				
Thickness (mils)	193	193	193	193	193	187	187	187	187	187		
Time (s)	29	29	29	29	29	36	36	36	36	36		
Flow (L)	2.16	2.12	2.16	2.12	2.12	2.16	2.16	2.16	2.12	2.16		
Permittivity (s-1)	0.72	0.71	0.72	0.71	0.71	0.58	0.58	0.58	0.57	0.58		
Flow rate (GPM/ft2)	54	53	54	53	53	44	44	44	43	44		
Permeability (cm/s)	0.355	0.348	0.355	0.348	0.348	0.277	0.277	0.277	0.272	0.277		
Trial =>:			3					4				
Thickness (mils)	189	189	189	189	189	191	191	191	191	191		
Time (s)	36	36	36	36	36	36	36	36	36	36		
Flow (L)	2.16	2.20	2.16	2.16	2.16	2.12	2.12	2.12	2.12	2.12		
Permittivity (s-1)	0.58	0.59	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.57	0.61	0.06
Flow rate (GPM/ft2)	44	44	44	44	44	43	43	43	43	43	46	5
Permeability (cm/s)	0.280	0.285	0.280	0.280	0.280	0.277	0.277	0.277	0.277	0.277	0.296	0.032

TEMPERATURE CORRECTED VALUES		
	Permittivity (s-1)	0.61
	Flow rate (GPM/ft2)	46
	Permeability (cm/s)	0.296

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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APPENDIX H

GEOSYNTHETIC CLAY LINER (GCL)

APPENDIX H-1

MATERIAL INVENTORY LOGS

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200637LO	00005849	00005838	82606D	3000	1.00	281.4	53.7	27	16.2					yes	yes
200637LO	00005850	00005838	82606D	3000				27	16.2					yes	yes
200637LO	00005851	00005838	82606D	3000				27	16.2					yes	yes
200637LO	00005852	00005838	82606D	3000				27	16.2					yes	yes
200637LO	00005853	00005838	82606D	3000				27	16.2			0.88	2.90E-09	yes	yes
200637LO	00005854	00005854	82606D	3000	0.81	281.4	46.1	27	16.2	7.14E-09	29.6			yes	yes
200637LO	00005855	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005856	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005857	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005858	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005859	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005860	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005861	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005862	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005863	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005864	00005854	82606D	3000				27	16.2					yes	yes
200637LO	00005865	00005854	82606E	3000				28	17					yes	yes
200637LO	00005866	00005854	82606E	3000				28	17					yes	yes
200637LO	00005867	00005867	82606E	3000	0.86	281.4	36.5	28	17		25.6			yes	yes
200637LO	00005868	00005867	82606E	3000				28	17					yes	yes
200637LO	00005869	00005867	82606E	3000				28	17					yes	yes
200637LO	00005870	00005867	82606E	3000				28	17					yes	yes
200637LO	00005871	00005867	82606E	3000				28	17					yes	yes
200637LO	00005872	00005867	82606E	3000				28	17					yes	yes
200637LO	00005873	00005867	82606E	3000				28	17					yes	yes
200637LO	00005874	00005867	82606E	3000				28	17					yes	yes
200637LO	00005875	00005867	82606E	3000				28	17					yes	yes
200637LO	00005876	00005867	82606E	3000				28	17					yes	yes
200637LO	00005877	00005867	82606E	3000				28	17					yes	yes
200637LO	00005878	00005867	82606E	3000				28	17					yes	yes
200637LO	00005879	00005867	82606E	3000				28	17					yes	yes
200637LO	00005880	00005880	82606E	3000	0.91	281.4	25.9	28	17		25.1			yes	yes
200637LO	00005881	00005880	82606E	3000				28	17					yes	yes
200637LO	00005882	00005880	82606E	3000				28	17					yes	yes
200637LO	00005883	00005880	82606E	3000				28	17					yes	yes
200637LO	00005884	00005880	82606E	3000				28	17					yes	yes
200637LO	00005885	00005880	82606E	3000				28	17					yes	yes
200637LO	00005886	00005880	82606E	3000				28	17			0.97		yes	yes
200637LO	00005887	00005880	82606E	3000				28	17					yes	yes
200637LO	00005888	00005880	82606E	3000				28	17					yes	yes
200637LO	00005889	00005880	82606E	3000				28	17					yes	yes
200637LO	00005890	00005880	82606E	3000				28	17					yes	yes
200637LO	00005891	00005880	82606E	3000				28	17					yes	yes
200637LO	00005892	00005880	82606E	3000				28	17					yes	yes
200637LO	00005893	00005893	82606E	3000	0.84	281.4	34.6	28	17		26.3			yes	yes
200637LO	00005894	00005893	82606E	3000				28	17					yes	yes
200637LO	00005895	00005893	82606E	3000				28	17					yes	yes
200637LO	00005896	00005893	82606E	3000				28	17					yes	yes
200637LO	00005897	00005893	82606E	3000				28	17					yes	yes
200637LO	00005898	00005893	82606E	3000				28	17					yes	yes
200637LO	00005899	00005893	82606E	3000				28	17					yes	yes
200637LO	00005900	00005893	82606E	3000				28	17					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200637LO	00005901	00005893	82606E	3000				28	17					yes	yes
200637LO	00005902	00005893	82606E	3000				28	17					yes	yes
200637LO	00005903	00005893	82606E	3000				28	17					yes	yes
200637LO	00005904	00005893	82606E	3000				28	17					yes	yes
200637LO	00005905	00005893	82606E	3000				28	17					yes	yes
200637LO	00005906	00005906	82606E	3000	0.83	280.7	39.5	28	17		27.4			yes	yes
200637LO	00005907	00005906	82606E	3000				28	17					yes	yes
200637LO	00005908	00005906	82606E	3000				28	17					yes	yes
200637LO	00005909	00005906	82606E	3000				28	17					yes	yes
200637LO	00005910	00005906	82606F	3000				28	16					yes	yes
200637LO	00005911	00005906	82606F	3000				28	16					yes	yes
200637LO	00005912	00005906	82606F	3000				28	16					yes	yes
200637LO	00005913	00005906	82606F	3000				28	16					yes	yes
200637LO	00005914	00005906	82606F	3000				28	16					yes	yes
200637LO	00005915	00005906	82606F	3000				28	16					yes	yes
200637LO	00005916	00005906	82606F	3000				28	16					yes	yes
200637LO	00005917	00005906	82606F	3000				28	16					yes	yes
200637LO	00005918	00005906	82606F	3000				28	16					yes	yes
200637LO	00005919	00005919	82606F	3000	0.92	280.7	45.4	28	16		26.4	0.92		yes	yes
200637LO	00005920	00005919	82606F	3000				28	16	3.75E-09				yes	yes
200637LO	00005921	00005919	82606F	3000				28	16					yes	yes
200637LO	00005922	00005919	82606F	3000				28	16					yes	yes
200637LO	00005923	00005919	82606F	3000				28	16					yes	yes
200637LO	00005924	00005919	82606F	3000				28	16					yes	yes
200637LO	00005925	00005919	82606F	3000				28	16					yes	yes
200637LO	00005926	00005919	82606F	3000				28	16					yes	yes
200637LO	00005927	00005919	82606F	3000				28	16					yes	yes
200637LO	00005928	00005919	82606F	3000				28	16					yes	yes
200637LO	00005929	00005919	82606F	3000				28	16					yes	yes
200637LO	00005930	00005919	82606F	3000				28	16					yes	yes
200637LO	00005931	00005919	82606F	3000				28	16					yes	yes
200637LO	00005932	00005932	82606F	3000	0.91	280.7	30.2	28	16		27.3			yes	yes
200637LO	00005933	00005932	82606F	3000				28	16					yes	yes
200637LO	00005934	00005932	82606F	3000				28	16					yes	yes
200637LO	00005935	00005932	82606F	3000				28	16					yes	yes
200637LO	00005936	00005932	82606F	3000				28	16					yes	yes
200637LO	00005937	00005932	82606F	3000				28	16					yes	yes
200637LO	00005938	00005932	82606F	3000				28	16					yes	yes
200637LO	00005939	00005932	82606F	3000				28	16					yes	yes
200637LO	00005940	00005932	82606F	3000				28	16					yes	yes
200637LO	00005941	00005932	82606F	3000				28	16					yes	yes
200637LO	00005942	00005932	82606F	3000				28	16					yes	yes
200637LO	00005943	00005932	82606F	3000				28	16					yes	yes
200637LO	00005944	00005932	82606F	3000				28	16					yes	yes
200637LO	00005945	00005945	82606F	3000	0.85	280.7	26.5	28	16		28.4			yes	yes
200637LO	00005946	00005945	82606F	3000				28	16					yes	yes
200637LO	00005947	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005948	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005949	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005950	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005951	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005952	00005945	82606G	3000				25	16.4			0.95		yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200637LO	00005953	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005954	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005955	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005956	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005957	00005945	82606G	3000				25	16.4					yes	yes
200637LO	00005958	00005958	82606G	3000	0.95	208.7	24.5	25	16.4		26.7			yes	yes
200637LO	00005959	00005958	82606G	3000				25	16.4					yes	yes
200637LO	00005960	00005958	82606G	3000				25	16.4					yes	yes
200637LO	00005964	00005964	82606G	3000	0.90	230.7	29.3	25	16.4		29.0			yes	yes
200637LO	00005965	00005964	82606G	3000				25	16.4					yes	yes
200637LO	00005966	00005964	82606G	3000				25	16.4					yes	yes
200637LO	00005967	00005964	82606G	3000				25	16.4					yes	yes
200637LO	00005968	00005964	82606G	3000				25	16.4					yes	yes
200637LO	00005969	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005970	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005971	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005972	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005973	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005974	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005975	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005976	00005964	08206A	3000				26	16.0					yes	yes
200637LO	00005978	00005978	08206A	3000	0.83	230.7	19.4	26	16.0		26.6			yes	yes
200637LO	00005979	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005980	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005981	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005982	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005983	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005984	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005985	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005986	00005978	08206A	3000				26	16.0	4.00E-09				yes	yes
200637LO	00005987	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005988	00005978	08206A	3000				26	16.0		21.4	0.86	3.10E-09	yes	yes
200637LO	00005989	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005990	00005978	08206A	3000				26	16.0					yes	yes
200637LO	00005991	00005991	08206A	3000	0.91	230.7	29.0	26	16.0		29.0			yes	yes
200637LO	00005992	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00005993	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00005994	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00005995	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00005996	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00005997	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00005998	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00005999	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00006000	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00006001	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00006002	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00006003	00005991	08206A	3000				26	16.0					yes	yes
200637LO	00006004	00006004	08206A	3000	0.87	230.7	28.4	26	16.0		24.0			yes	yes
200637LO	00006005	00006004	08206A	3000				26	16.0					yes	yes
200637LO	00006006	00006004	08206A	3000				26	16.0					yes	yes
200637LO	00006007	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006008	00006004	08206B	3000				31	16.4					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200637LO	00006009	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006010	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006011	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006012	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006013	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006014	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006015	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006016	00006004	08206B	3000				31	16.4					yes	yes
200637LO	00006017	00006017	08206B	3000	0.80	230.7	22.5	31	16.4		26.6			yes	yes
200637LO	00006018	00006017	08206B	3000				31	16.4					yes	yes
200637LO	00006019	00006017	08206B	3000				31	16.4					yes	yes
200637LO	00006020	00006017	08206B	3000				31	16.4					yes	yes
200637LO	00006021	00006021	08206B	3000	0.96	211.4	27.3	31	16.4		23.3	0.80		yes	yes
200637LO	00006022	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006023	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006024	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006025	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006026	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006027	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006028	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006029	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006030	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006031	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006032	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006033	00006021	08206B	3000				31	16.4					yes	yes
200637LO	00006034	00006034	08206B	3000	0.93	211.4	21.7	31	16.4		27.9			yes	yes
200637LO	00006035	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006036	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006037	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006038	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006039	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006040	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006041	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006042	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006043	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006044	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006045	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006046	00006034	08206B	3000				31	16.4					yes	yes
200637LO	00006047	00006047	08206B	3000	0.83	211.4	27.9	31	16.4		29.7			yes	yes
200637LO	00006048	00006047	08206B	3000				31	16.4					yes	yes
200637LO	00006049	00006047	08206B	3000				31	16.4					yes	yes
200637LO	00006050	00006047	08206B	3000				31	16.4					yes	yes
200637LO	00006051	00006047	08206B	3000				31	16.4					yes	yes
200637LO	00006052	00006047	08206B	3000				31	16.4	9.0E-09				yes	yes
200639LO	00006369	00006369	092406B	3000	0.88	298.5	37.5	25	15.0		29.7			yes	yes
200639LO	00006370	00006369	092406B	3000				25	15.0					yes	yes
200639LO	00006371	00006369	092406B	3000				25	15.0					yes	yes
200639LO	00006372	00006369	092406B	3000				25	15.0					yes	yes
200639LO	00006373	00006369	092406B	3000				25	15.0					yes	yes
200639LO	00006374	00006369	092406B	3000				25	15.0					yes	yes
200639LO	00006375	00006369	092406B	3000				25	15.0			0.76		yes	yes
200639LO	00006376	00006369	092406B	3000				25	15.0					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200639LO	00006377	00006369	092406B	3000				25	15.0					yes	yes
200640LO	00006378	00006378	092506A	3000	0.92	264.0	45.6	29	15.6		29.1			yes	yes
200640LO	00006379	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006381	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006382	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006383	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006384	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006385	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006386	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006387	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006388	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006389	00006378	092506A	3000				29	15.6	3.01E-09				yes	yes
200640LO	00006390	00006378	092506A	3000				29	15.6					yes	yes
200640LO	00006391	00006391	092506A	3000	0.84	264.0	39.4	29	15.6		29.2			yes	yes
200640LO	00006392	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006393	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006394	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006395	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006396	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006397	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006398	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006399	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006400	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006401	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006402	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006403	00006391	092506A	3000				29	15.6					yes	yes
200640LO	00006404	00006404	092506A	3000	0.99	264.0	38.3	29	15.6		26.8			yes	yes
200640LO	00006405	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006406	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006407	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006408	00006404	092506A	3000				29	15.6			1.01		yes	yes
200640LO	00006409	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006410	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006411	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006412	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006413	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006414	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006415	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006416	00006404	092506A	3000				29	15.6					yes	yes
200640LO	00006417	00006417	092506A	3000	0.85	264.0	32.4	29	15.6		28.4			yes	yes
200640LO	00006418	00006417	092506A	3000				29	15.6					yes	yes
200640LO	00006419	00006417	092506A	3000				29	15.6					yes	yes
200640LO	00006420	00006417	092506A	3000				29	15.6					yes	yes
200640LO	00006421	00006417	092506A	3000				29	15.6					yes	yes
200640LO	00006422	00006417	092506B	3000				31	16.0					yes	yes
200640LO	00006423	00006417	092506B	3000				31	16.0					yes	yes
200640LO	00006424	00006417	092506B	3000				31	16.0					yes	yes
200640LO	00006425	00006417	092506B	3000				31	16.0					yes	yes
200640LO	00006426	00006417	092506B	3000				31	16.0					yes	yes
200640LO	00006427	00006417	092506B	3000				31	16.0					yes	yes
200640LO	00006428	00006417	092506B	3000				31	16.0					yes	yes
200640LO	00006429	00006417	092506B	3000				31	16.0					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00006430	00006430	092506B	3000	0.87	264.0	34.1	31	16.0		25.7			yes	yes
200640LO	00006431	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006432	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006433	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006434	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006435	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006436	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006437	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006438	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006439	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006440	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006441	00006430	092506B	3000				31	16.0			1.04	2.80E-09	yes	yes
200640LO	00006442	00006430	092506B	3000				31	16.0					yes	yes
200640LO	00006443	00006443	092506B	3000	0.94	302.8	35.6	31	16.0		24.7			yes	yes
200640LO	00006444	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006445	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006446	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006447	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006448	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006449	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006450	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006451	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006452	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006453	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006454	00006443	092506B	3000				31	16.0					yes	yes
200640LO	00006455	00006443	092506B	3000				31	16.0	4.97E-09				yes	yes
200640LO	00006456	00006456	092506B	3000	0.83	302.8	30.6	31	16.0		27.3			yes	yes
200640LO	00006457	00006456	092506B	3000				31	16.0					yes	yes
200640LO	00006458	00006456	092506B	3000				31	16.0					yes	yes
200640LO	00006461	00006461	0925056C	3000	1.00	211.1	20.4	30	16.4		25.4			yes	yes
200640LO	00006462	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006463	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006464	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006465	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006466	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006467	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006468	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006469	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006470	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006471	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006472	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006473	00006461	0925056C	3000				30	16.4					yes	yes
200640LO	00006474	00006474	0925056C	3000	0.92	211.1	27.1	30	16.4		26.4	0.91		yes	yes
200640LO	00006475	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006476	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006477	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006478	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006479	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006480	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006481	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006482	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006483	00006474	0925056C	3000				30	16.4					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00006484	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006485	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006486	00006474	0925056C	3000				30	16.4					yes	yes
200640LO	00006487	00006487	0925056C	3000	1.00	211.1	20.3	30	16.4		25.5			yes	yes
200640LO	00006488	00006487	0925056C	3000				30	16.4					yes	yes
200640LO	00006489	00006487	0925056C	3000				30	16.4					yes	yes
200640LO	00006490	00006487	0925056C	3000				30	16.4					yes	yes
200640LO	00006491	00006487	0925056C	3000				30	16.4					yes	yes
200640LO	00006492	00006487	0925056C	3000				30	16.4					yes	yes
200640LO	00006493	00006493	092606A	3000	0.89	207.5	29.1	27	16.4		27.4			yes	yes
200640LO	00006495	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006496	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006497	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006498	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006499	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006500	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006501	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006502	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006503	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006504	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006505	00006493	092606A	3000				27	16.4					yes	yes
200640LO	00006506	00006506	092606A	3000	0.88	207.5	26.5	27	16.4		28.3			yes	yes
200640LO	00006507	00006506	092606A	3000				27	16.4			0.94		yes	yes
200640LO	00006508	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006509	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006510	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006511	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006512	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006513	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006514	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006515	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006516	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006517	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006518	00006506	092606A	3000				27	16.4					yes	yes
200640LO	00006519	00006519	092606A	3000	0.91	207.5	24.0	27	16.4		25.9			yes	yes
200640LO	00006520	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006521	00006519	092606A	3000				27	16.4	4.35E-09				yes	yes
200640LO	00006522	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006523	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006524	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006525	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006526	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006527	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006528	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006529	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006530	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006531	00006519	092606A	3000				27	16.4					yes	yes
200640LO	00006532	00006532	092606A	3000	0.90	178.9	34.5	27	16.4		25.3			yes	yes
200640LO	00006533	00006532	092606A	3000				27	16.4					yes	yes
200640LO	00006534	00006532	092606A	3000				27	16.4					yes	yes
200640LO	00006535	00006532	092606A	3000				27	16.4					yes	yes
200640LO	00006536	00006532	092606A	3000				27	16.4					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00006537	00006532	092606B	3000				28	16.6					yes	yes
200640LO	00006538	00006532	092606B	3000				28	16.6					yes	yes
200640LO	00006539	00006532	092606B	3000				28	16.6					yes	yes
200640LO	00006540	00006532	092606B	3000				28	16.6			0.94		yes	yes
200640LO	00006541	00006532	092606B	3000				28	16.6					yes	yes
200640LO	00006542	00006532	092606B	3000				28	16.6					yes	yes
200640LO	00006543	00006532	092606B	3000				28	16.6					yes	yes
200640LO	00006544	00006532	092606B	3000				28	16.6					yes	yes
200640LO	00006545	00006545	092606B	3000	0.87	178.9	25.8	28	16.6		28.6			yes	yes
200640LO	00006546	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006547	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006548	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006549	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006550	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006551	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006552	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006553	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006554	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006555	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006556	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006557	00006545	092606B	3000				28	16.6					yes	yes
200640LO	00006558	00006558	092606B	3000	0.86	178.9	23.4	28	16.6		26.0			yes	yes
200640LO	00006559	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006560	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006561	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006562	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006563	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006564	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006565	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006566	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006567	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006568	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006569	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006570	00006558	092606B	3000				28	16.6					yes	yes
200640LO	00006571	00006571	092606B	3000	0.86	178.9	26.8	28	16.6		28.5			yes	yes
200640LO	00006572	00006571	092606B	3000				28	16.6					yes	yes
200640LO	00006780	00006780	092906A	3000	0.87	179.50	25	27	15.8		28.9			yes	yes
200640LO	00006781	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006782	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006783	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006784	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006785	00006780	092906A	3000				27	15.8			0.98	2.2E-09	yes	yes
200640LO	00006786	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006787	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006788	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006789	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006790	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006791	00006780	092906A	3000				27	15.8					yes	yes
200640LO	00006792	00006780	092906B	3000				29	15.4					yes	yes
200640LO	00006793	00006793	092906B	3000	1.00	179.50	20.3	29	15.4		27.9			yes	yes
200640LO	00006794	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006795	00006793	092906B	3000				29	15.4					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00006796	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006797	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006798	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006799	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006800	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006801	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006802	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006803	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006804	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006805	00006793	092906B	3000				29	15.4					yes	yes
200640LO	00006806	00006806	092906B	3000	1.01	179.50	30.3	29	15.4		27.1			yes	yes
200640LO	00006807	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006808	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006809	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006810	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006811	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006812	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006813	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006814	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006815	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006816	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006817	00006806	092906B	3000				29	15.4					yes	yes
200640LO	00006818	00006806	092906B	3000				29	15.4			0.99		yes	yes
200640LO	00006819	00006819	092906B	3000	0.86	179.50	44.5	29	15.4		28.7			yes	yes
200640LO	00006820	00006819	092906B	3000				29	15.4					yes	yes
200640LO	00006821	00006819	092906B	3000				29	15.4					yes	yes
200640LO	00006822	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006823	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006824	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006825	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006826	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006827	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006828	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006829	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006830	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006831	00006819	092906C	3000				27	16.5					yes	yes
200640LO	00006832	00006832	092906C	3000	0.90	179.50	34.9	27	16.5		29.9			yes	yes
200640LO	00006833	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006834	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006835	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006836	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006837	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006838	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006839	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006840	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006841	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006842	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006843	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006844	00006832	092906C	3000				27	16.5					yes	yes
200640LO	00006845	00006845	092906C	3000	0.97	268.20	43.1	27	16.5		27.5			yes	yes
200640LO	00006846	00006845	092906C	3000				27	16.5					yes	yes
200640LO	00006847	00006845	092906C	3000				27	16.5					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00006848	00006845	092906C	3000				27	16.5					yes	yes
200640LO	00006849	00006845	092906D	3000				28	16					yes	yes
200640LO	00006850	00006845	092906D	3000				28	16					yes	yes
200640LO	00006851	00006845	092906D	3000				28	16			1.17		yes	yes
200640LO	00006852	00006845	092906D	3000				28	16					yes	yes
200640LO	00006853	00006845	092906D	3000				28	16					yes	yes
200640LO	00006854	00006845	092906D	3000				28	16					yes	yes
200640LO	00006855	00006845	092906D	3000				28	16					yes	yes
200640LO	00006856	00006845	092906D	3000				28	16					yes	yes
200640LO	00006857	00006845	092906D	3000				28	16					yes	yes
200640LO	00006858	00006858	092906D	3000	0.99	268.20	52.5	28	16	4.14E-09	27.7			yes	yes
200640LO	00006859	00006858	092906D	3000				28	16					yes	yes
200640LO	00006860	00006858	092906D	3000				28	16					yes	yes
200640LO	00006861	00006858	092906D	3000				28	16					yes	yes
200640LO	00006862	00006858	092906D	3000				28	16					yes	yes
200640LO	00006863	00006858	092906D	3000				28	16					yes	yes
200640LO	00006864	00006858	092906D	3000				28	16					yes	yes
200640LO	00006865	00006858	092906D	3000				28	16					yes	yes
200640LO	00006866	00006858	092906D	3000				28	16					yes	yes
200640LO	00006867	00006858	092906D	3000				28	16					yes	yes
200640LO	00006868	00006858	092906D	3000				28	16					yes	yes
200640LO	00006869	00006858	092906D	3000				28	16					yes	yes
200640LO	00006870	00006858	092906D	3000				28	16					yes	yes
200640LO	00006871	00006871	092906D	3000	1.00	268.20	43	28	16		24.8			yes	yes
200640LO	00006872	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006873	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006874	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006875	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006876	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006877	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006878	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006879	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006880	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006881	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006882	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006883	00006871	092906E	3000				32	14.6					yes	yes
200640LO	00006884	00006884	092906E	3000	0.89	268.20	33.2	32	14.6		27.5	1.12		yes	yes
200640LO	00006885	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006886	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006887	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006888	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006889	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006890	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006891	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006892	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006893	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006894	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006895	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006896	00006884	092906E	3000				32	14.6					yes	yes
200640LO	00006897	00006897	092906E	3000	0.89	268.20	31.6	32	14.6		28.1			yes	yes
200640LO	00006898	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006899	00006897	092906E	3000				32	14.6					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00006900	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006901	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006902	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006903	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006904	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006905	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006906	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006907	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006908	00006897	092906E	3000				32	14.6					yes	yes
200640LO	00006909	00006897	092906F	3000				30	16.3					yes	yes
200640LO	00006910	00006910	092906F	3000	0.89	284.20	26.3	30	16.3		24.4			yes	yes
200640LO	00006911	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006912	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006913	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006914	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006915	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006916	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006917	00006910	092906F	3000				30	16.3			0.89	3.2E-09	yes	yes
200640LO	00006918	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006919	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006920	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006921	00006910	092906F	3000				30	16.3					yes	yes
200640LO	00006923	00006923	093006A	3000	0.93	284.20	37.1	31	16		28.0			yes	yes
200640LO	00006924	00006923	093006A	3000				31	16					yes	yes
200640LO	00006925	00006923	093006A	3000				31	16	5.28.E-09				yes	yes
200640LO	00006926	00006923	093006A	3000				31	16					yes	yes
200640LO	00006927	00006923	093006A	3000				31	16					yes	yes
200640LO	00006928	00006923	093006A	3000				31	16					yes	yes
200640LO	00006929	00006923	093006A	3000				31	16					yes	yes
200640LO	00006930	00006923	093006A	3000				31	16					yes	yes
200640LO	00006931	00006923	093006A	3000				31	16					yes	yes
200640LO	00006932	00006923	093006A	3000				31	16					yes	yes
200640LO	00006933	00006923	093006A	3000				31	16					yes	yes
200640LO	00006934	00006923	093006A	3000				31	16					yes	yes
200640LO	00006935	00006923	093006A	3000				31	16					yes	yes
200640LO	00006936	00006936	093006A	3000	0.95	169.30	24.1	31	16		28.6			yes	yes
200640LO	00006937	00006936	093006A	3000				31	16					yes	yes
200640LO	00006938	00006936	093006A	3000				31	16					yes	yes
200640LO	00006939	00006936	093006A	3000				31	16					yes	yes
200640LO	00006940	00006936	093006A	3000				31	16					yes	yes
200640LO	00006941	00006936	093006A	3000				31	16					yes	yes
200640LO	00006942	00006936	093006A	3000				31	16					yes	yes
200640LO	00006943	00006936	093006A	3000				31	16					yes	yes
200640LO	00006944	00006936	093006A	3000				31	16					yes	yes
200640LO	00006945	00006936	093006A	3000				31	16					yes	yes
200640LO	00006946	00006936	093006A	3000				31	16					yes	yes
200640LO	00006947	00006936	093006A	3000				31	16					yes	yes
200640LO	00006948	00006936	093006A	3000				31	16					yes	yes
200640LO	00006949	00006949	093006A	3000	0.93	169.30	27.2	31	16		26.6			yes	yes
200640LO	00006950	00006949	093006A	3000				31	16			1.06		yes	yes
200640LO	00006951	00006949	093006A	3000				31	16					yes	yes
200640LO	00006952	00006949	093006B	3000				28	16.8					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00006953	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006954	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006955	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006956	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006957	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006958	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006959	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006960	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006961	00006949	093006B	3000				28	16.8					yes	yes
200640LO	00006962	00006962	093006B	3000	0.89	169.60	27.70	28	16.8		28.3			yes	yes
200640LO	00006963	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006964	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006965	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006966	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006967	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006968	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006969	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006970	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006971	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006972	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006973	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006974	00006962	093006B	3000				28	16.8					yes	yes
200640LO	00006975	00006975	093006B	3000	0.91	169.60	25.80	28	16.8		28.1			yes	yes
200640LO	00006976	00006975	093006B	3000				28	16.8					yes	yes
200640LO	00006977	00006975	093006B	3000				28	16.8					yes	yes
200640LO	00006978	00006975	093006B	3000				28	16.8					yes	yes
200640LO	00006979	00006975	093006B	3000				28	16.8					yes	yes
200640LO	00006980	00006975	093006C	3000				28	17					yes	yes
200640LO	00006981	00006975	093006C	3000				28	17					yes	yes
200640LO	00006982	00006975	093006C	3000				28	17					yes	yes
200640LO	00006983	00006975	093006C	3000				28	17			1.12		yes	yes
200640LO	00006984	00006975	093006C	3000				28	17					yes	yes
200640LO	00006985	00006975	093006C	3000				28	17					yes	yes
200640LO	00006986	00006975	093006C	3000				28	17					yes	yes
200640LO	00006987	00006975	093006C	3000				28	17					yes	yes
200640LO	00006988	00006988	093006C	3000	0.94	169.60	36.10	28	17		27.5			yes	yes
200640LO	00006989	00006988	093006C	3000				28	17					yes	yes
200640LO	00006990	00006988	093006C	3000				28	17					yes	yes
200640LO	00006991	00006988	093006C	3000				28	17	4.43E-09				yes	yes
200640LO	00006992	00006988	093006C	3000				28	17					yes	yes
200640LO	00006993	00006988	093006C	3000				28	17					yes	yes
200640LO	00006994	00006988	093006C	3000				28	17					yes	yes
200640LO	00006995	00006988	093006C	3000				28	17					yes	yes
200640LO	00006996	00006988	093006C	3000				28	17					yes	yes
200640LO	00006997	00006988	093006C	3000				28	17					yes	yes
200640LO	00006998	00006988	093006C	3000				28	17					yes	yes
200640LO	00006999	00006988	093006C	3000				28	17					yes	yes
200640LO	00007000	00006988	093006C	3000				28	17					yes	yes
200640LO	00007001	00007001	093006C	3000	1.00	169.60	37.30	28	17		27.6			yes	yes
200640LO	00007002	00007001	093006C	3000				28	17					yes	yes
200640LO	00007003	00007001	093006C	3000				28	17					yes	yes
200640LO	00007004	00007001	093006C	3000				28	17					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200640LO	00007005	00007001	093006C	3000				28	17					yes	yes
200640LO	00007006	00007001	093006C	3000				28	17					yes	yes
200640LO	00007007	00007001	093006C	3000				28	17					yes	yes
200640LO	00007008	00007001	093006D	3000				30	16.6					yes	yes
200640LO	00007009	00007001	093006D	3000				30	16.6					yes	yes
200640LO	00007010	00007001	093006D	3000				30	16.6					yes	yes
200640LO	00007011	00007001	093006D	3000				30	16.6					yes	yes
200640LO	00007012	00007001	093006D	3000				30	16.6					yes	yes
200640LO	00007013	00007001	093006D	3000				30	16.6					yes	yes
200640LO	00007014	00007014	093006D	3000	0.88	169.60	32.80	30	16.6		28.1			yes	yes
200640LO	00007015	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007016	00007014	093006D	3000				30	16.6			0.93		yes	yes
200640LO	00007017	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007018	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007019	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007020	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007021	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007022	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007023	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007024	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007025	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007026	00007014	093006D	3000				30	16.6					yes	yes
200640LO	00007027	00007027	093006D	3000	0.94	277.20	26.30	30	16.6		27.2			yes	yes
200640LO	00007028	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007029	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007030	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007031	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007032	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007033	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007034	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007035	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007036	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007037	00007027	093006D	3000				30	16.6					yes	yes
200640LO	00007038	00007027	093006E	3000				29	17.4					yes	yes
200640LO	00007039	00007027	093006E	3000				29	17.4					yes	yes
200640LO	00007040	00007040	093006E	3000	0.81	277.20	31.80	29	17.4		26.1			yes	yes
200640LO	00007041	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007042	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007043	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007044	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007045	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007046	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007047	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007048	00007040	093006E	3000				29	17.4					yes	yes
200640LO	00007049	00007040	093006E	3000				29	17.4			1.18	2.8E-09	yes	yes
200749LO	00005852	00005852	112907C	3000	0.83	70.1	8.7	30.0	14.6		26.6			yes	yes
200749LO	00005853	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005854	00005852	112907C	3000				30.0	14.6			0.85	3.5E-09	yes	yes
200749LO	00005855	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005856	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005857	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005858	00005852	112907C	3000				30.0	14.6					yes	yes

Appendix H-1
Geosynthetic Clay Liner (GCL) Log
White Mesa Mill, Cell 4A
Blanding, UT

					Manufacturer Quality Control Testing							CQA Conformance Testing		Acceptance	
GCL Lot No.	GCL Roll No.	Roll No.	Clay Lot No.	Area (SF)	Bentonite Content 0.75 lb/ft^2 1/50,000	Grab Strength	Peel Strength	Bentonite Swell Index 24 mL/2g	Bentonite Fluid Loss 18 mL	Hydraulic Flux 1e-^{08} m^3/m^2-s 1/200,000	Moisture Content 30% 1/100,000	Mass per unit area 1/100,000	Index Flux 1x10^{-08} 1/400,000	MQA	CQA
200749LO	00005859	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005860	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005861	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005862	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005863	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005864	00005852	112907C	3000				30.0	14.6					yes	yes
200749LO	00005865	00005865	112907C	3000	0.84	70.1	4.8	30.0	14.6		26.1			yes	yes
200749LO	00005866	00005865	112907C	3000				30.0	14.6					yes	yes
200749LO	00005867	00005865	112907C	3000				30.0	14.6					yes	yes
200749LO	00005868	00005865	112907C	3000				30.0	14.6					yes	yes
200749LO	00005869	00005865	112907C	3000				30.0	14.6					yes	yes
200749LO	00005870	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005871	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005872	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005873	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005874	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005875	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005876	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005877	00005865	113007A	3000				29.0	14.6					yes	yes
200749LO	00005878	00005878	113007A	3000	0.91	70.1	7.0	29.0	14.6		26.7			yes	yes
200749LO	00005879	00005878	113007A	3000				29.0	14.6					yes	yes
200749LO	00005880	00005878	113007A	3000				29.0	14.6					yes	yes
200749LO	00005881	00005878	113007A	3000				29.0	14.6					yes	yes
200749LO	00005882	00005878	113007A	3000				29.0	14.6			0.86		yes	yes
200749LO	00005883	00005878	113007A	3000				29.0	14.6					yes	yes
200749LO	00005884	00005878	113007A	3000				29.0	14.6					yes	yes
200749LO	00005885	00005878	113007A	3000				29.0	14.6					yes	yes
200817LO	00001284	00001280	033008B	2250	0.80			24.0	15.6		26.7			yes	yes
200817LO	00001285	00001280	033008B	2250										yes	yes
			Total sq. ft	**2,007,000**											

APPENDIX H-2

CQA CONFORMANCE RESULTS

September 25, 2006

Mail To:	**Bill To:**
Mr. Gregory T. Corcoran, P.E. **Geosyntec Consultants** 10875 Rancho Bernardo Road, Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**International Uranium Corporation**
TRI Job Reference Number:	E2243-69-01
Material(s) Tested:	6 Bentomat ST GCL(s)
Test(s) Requested:	Mass/Unit Area (ASTM D 5993) Index Flux (ASTM D 5887)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Sample Identification: 5853
TRI Log #: E2243-69-01

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	1.00	0.99	0.86	0.79	0.74						**0.88**	0.12
Moisture Content (%)	22.6	22.7	22.9	18.5	19.2						**21.2**	2.2
Index Flux (ASTM D 5887)												
Index Flux (m^3/m^2/sec)	2.9E-09										**2.9E-09**	
Hydraulic Conductivity (cm/sec)	1.9E-09										**1.9E-09**	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Sample Identification: 5988
TRI Log #: E2243-69-01

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	0.89	0.93	0.85	0.77	0.87						**0.86**	0.06
Moisture Content (%)	23.1	22.4	22.6	19.8	19.3						**21.4**	1.8
Index Flux (ASTM D 5887)												
Index Flux (m^3/m^2/sec)	3.1E-09										**3.1E-09**	
Hydraulic Conductivity (cm/sec)	2.4E-09										**2.4E-09**	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)
TRI Log #: E2243-69-01

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 5886												
Bentonite mass/unit area (lbs/ft^2)	1.05	0.94	0.98	0.92	0.96						**0.97**	0.05
Moisture Content (%)	24.1	23.4	20.4	20.6	19.9						**21.7**	1.9
Sample Identification: 5919												
Bentonite mass/unit area (lbs/ft^2)	0.92	0.91	1.03	0.86	0.87						**0.92**	0.07
Moisture Content (%)	24.0	20.3	21.7	23.0	18.1						**21.4**	2.3
Sample Identification: 5952												
Bentonite mass/unit area (lbs/ft^2)	0.73	1.09	1.02	0.98	0.94						**0.95**	0.14
Moisture Content (%)	24.9	22.7	23.0	20.4	18.9						**22.0**	2.3
Sample Identification: 6021												
Bentonite mass/unit area (lbs/ft^2)	0.68	0.82	0.82	0.90	0.78						**0.80**	0.08
Moisture Content (%)	23.4	21.8	21.4	21.4	19.3						**21.5**	1.5

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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October 6, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**International Uranium Corporation**
TRI Job Reference Number:	E2243-73-04
Material(s) Tested:	6 Bentomat ST GCL(s)
Test(s) Requested:	Mass/Unit Area (ASTM D 5993) Index Flux (ASTM D 5887)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen

Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Sample Identification: 6441
TRI Log #: E2243-73-04

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	1.11	0.94	1.06	0.98	1.10						1.04	0.07
Moisture Content (%)	20.0	20.2	19.2	19.6	19.3						19.7	0.4
Index Flux (ASTM D 5887)												
Index Flux (m^3/m^2/sec)	2.8E-09										2.8E-09	
Hydraulic Conductivity (cm/sec)	2.6E-09										2.6E-09	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)
TRI Log #: E2243-73-04

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 6375												
Bentonite mass/unit area (lbs/ft^2)	0.83	0.89	0.71	0.76	0.63						**0.76**	0.10
Moisture Content (%)	25.9	26.4	26.4	25.5	24.4						**25.7**	0.8
Sample Identification: 6408												
Bentonite mass/unit area (lbs/ft^2)	1.00	0.94	1.00	1.04	1.07						**1.01**	0.05
Moisture Content (%)	23.9	24.8	24.7	22.4	22.5						**23.7**	1.2
Sample Identification: 6474												
Bentonite mass/unit area (lbs/ft^2)	0.83	0.93	0.90	0.95	0.92						**0.91**	0.05
Moisture Content (%)	23.1	23.7	20.9	22.8	19.9						**22.1**	1.6
Sample Identification: 6507												
Bentonite mass/unit area (lbs/ft^2)	0.92	0.92	0.96	0.94	0.98						**0.94**	0.03
Moisture Content (%)	24.5	25.1	23.2	24.7	23.1						**24.1**	0.9
Sample Identification: 6540												
Bentonite mass/unit area (lbs/ft^2)	1.03	0.92	0.85	0.92	1.00						**0.94**	0.07
Moisture Content (%)	21.9	22.4	23.5	21.7	22.3						**22.4**	0.7

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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October 10, 2006

Mail To:	**Bill To:**
Mr. Gregory T. Corcoran, P.E. **Geosyntec Consultants** 10875 Rancho Bernardo Road, Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**International Uranium Corporation**
TRI Job Reference Number:	E2243-74-07
Material(s) Tested:	9 Bentomat ST GCL(s)
Test(s) Requested:	Mass/Unit Area (ASTM D 5993) Index Flux (ASTM D 5887)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Sample Identification: 6785
TRI Log #: E2243-74-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	1.07	1.08	0.94	0.88	0.91						**0.98**	0.09
Moisture Content (%)	27.3	26.6	27.3	29.4	26.3						**27.4**	1.2
Index Flux (ASTM D 5887)												
Index Flux (m^3/m^2/sec)	2.2E-09										**2.2E-09**	
Hydraulic Conductivity (cm/sec)	1.8E-09										**1.8E-09**	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Sample Identification: 6917
TRI Log #: E2243-74-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	0.89	0.98	0.88	0.83	0.88						**0.89**	0.05
Moisture Content (%)	27.3	26.4	29.9	22.0	22.3						**25.6**	3.4
Index Flux (ASTM D 5887)												
Index Flux (m^3/m^2/sec)	3.2E-09										**3.2E-09**	
Hydraulic Conductivity (cm/sec)	3.1E-09										**3.1E-09**	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Sample Identification: 7049
TRI Log #: E2243-74-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	1.21	1.10	1.07	1.27	1.23						**1.18**	0.09
Moisture Content (%)	21.9	22.5	19.4	21.8	19.6						**21.0**	1.4
Index Flux (ASTM D 5887)												
Index Flux (m^3/m^2/sec)	2.8E-09										**2.8E-09**	
Hydraulic Conductivity (cm/sec)	2.9E-09										**2.9E-09**	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: International Uranium Corporation

Material: Bentomat ST GCL
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)
TRI Log #: E2243-74-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 6818												
Bentonite mass/unit area (lbs/ft^2)	0.98	1.05	0.93	0.94	1.06						**0.99**	0.06
Moisture Content (%)	24.4	20.6	23.8	20.2	21.2						**22.0**	1.9
Sample Identification: 6851												
Bentonite mass/unit area (lbs/ft^2)	1.14	1.25	1.15	1.06	1.27						**1.17**	0.09
Moisture Content (%)	27.1	20.1	25.1	19.5	18.6						**22.1**	3.8
Sample Identification: 6884												
Bentonite mass/unit area (lbs/ft^2)	1.06	1.13	1.05	1.25	1.11						**1.12**	0.08
Moisture Content (%)	21.4	24.0	20.7	19.4	19.1						**20.9**	2.0
Sample Identification: 6950												
Bentonite mass/unit area (lbs/ft^2)	1.23	1.14	1.00	1.06	0.89						**1.06**	0.13
Moisture Content (%)	4.3	27.7	25.2	24.5	35.5						**23.4**	11.6
Sample Identification: 6983												
Bentonite mass/unit area (lbs/ft^2)	1.23	1.22	0.98	1.01	1.18						**1.12**	0.12
Moisture Content (%)	22.9	22.5	24.2	18.8	21.3						**21.9**	2.0
Sample Identification: 7016												
Bentonite mass/unit area (lbs/ft^2)	0.97	0.94	0.90	0.84	0.99						**0.93**	0.06
Moisture Content (%)	29.4	27.0	28.4	25.8	26.2						**27.4**	1.5

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

December 21, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-82-09
Material(s) Tested:	2 Bentomat ST GCL(s)
Test(s) Requested:	Mass/Unit Area (ASTM D 5993) Index Flux (ASTM D 5887)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Bentomat ST GCL
Sample Identification: 5854
TRI Log #: E2279-82-09

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	0.81	0.87	0.93	0.82	0.83						**0.85**	0.05
Moisture Content (%)	20.8	23.2	23.9	24.2	23.9						**23.2**	1.39
Index Flux (ASTM D 5887)												
Index Flux (m^3/m^2/sec)	3.5E-09										**3.5E-09**	
Hydraulic Conductivity (cm/sec)	3.4E-09										**3.4E-09**	

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: Bentomat ST GCL
Sample Identification: 5882
TRI Log #: E2279-82-09

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Mass/Unit Area (ASTM D 5993, result @ 0% M.C.)												
Bentonite mass/unit area (lbs/ft^2)	0.83	0.84	0.82	0.84	0.95						**0.86**	0.05
Moisture Content (%)	24.5	26.2	25.5	24.1	26.2						**25.3**	1.0

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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APPENDIX H-3

CQA CONFORMANCE FOR HYDRATION TEST RESULTS

June 6, 2008

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jmcmichen@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2308-31-01
Material(s) Tested:	1 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: GCL
Sample Identification: 1284
TRI Log #: E2308-31-01

PARAMETER	TEST REPLICATE NUMBER										MEAN
	1	2	3	4	5	6	7	8	9	10	
Sample Identification: 27											
Moisture Content (%)	145										**145**

Note: Bentonite sample tested is taken from finished GCL product.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

June 17, 2008

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jmcmichen@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2308-33-09
Material(s) Tested:	2 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: GCL
Sample Identification:
TRI Log #: E2308-33-09

PARAMETER	TEST REPLICATE NUMBER										MEAN
	1	2	3	4	5	6	7	8	9	10	
Sample Identification: DS161											
Moisture Content (%)	172										**172**
Note: Bentonite sample tested is taken from finished GCL product.											
Sample Identification: DS165											
Moisture Content (%)	140										**140**
Note: Bentonite sample tested is taken from finished GCL product.											

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

June 18, 2008

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jmcmichen@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2308-33-09
Material(s) Tested:	2 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: GCL
Sample Identification:
TRI Log #: E2308-33-09

PARAMETER	TEST REPLICATE NUMBER										MEAN
	1	2	3	4	5	6	7	8	9	10	
Sample Identification: DS169											
Moisture Content (%)	113										**113**
Note: Bentonite sample tested is taken from finished GCL product.											
Sample Identification: DS173											
Moisture Content (%)	137										**137**
Note: Bentonite sample tested is taken from finished GCL product.											

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 17, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-66-10
Material(s) Tested:	1 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Sample Identification: GCL - 2
TRI Log #: E2279-66-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Moisture Content (ASTM D 2216, Method A)												
Moisture Content (%)	79.3										**79.3**	

Note: Bentonite sample tested is taken from finished GCL product.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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October 22, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-68-02
Material(s) Tested:	1 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Sample Identification: 6533
TRI Log #: E2279-68-02

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Bentonite - Moisture Content (ASTM D 2216, Method A)												
Moisture Content (%)	168.8										**168.8**	

Note: Bentonite sample tested is taken from finished GCL product.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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October 23, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-68-08
Material(s) Tested:	3 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-68-08

PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	6	7	8	9	10	MEAN	STD. DEV.
Sample Identification: GCL - 4												
Moisture Content (%)	70.2										**70.2**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: GCL - 5												
Moisture Content (%)	91.3										**91.3**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: GCL - 6												
Moisture Content (%)	95.0										**95.0**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 26, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-69-08
Material(s) Tested:	2 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-69-08

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: GCL - 7												
Moisture Content (%)	114.1										**114.1**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: GCL - 8												
Moisture Content (%)	129.0										**129.0**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 29, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-70-05
Material(s) Tested:	5 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-70-05

PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	6	7	8	9	10	MEAN	STD. DEV.
Sample Identification: GCL - 9												
Moisture Content (%)	74.3										**74.3**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: GCL - 10												
Moisture Content (%)	62.4										**62.4**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: GCL - 11												
Moisture Content (%)	61.9										**61.9**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: GCL - 12												
Moisture Content (%)	76.8										**76.8**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: GCL - 13												
Moisture Content (%)	74.9										**74.9**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

November 6, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-72-06
Material(s) Tested:	2 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-72-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 14												
Moisture Content (%)	146										**146**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 15												
Moisture Content (%)	124										**124**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

November 7, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-73-01
Material(s) Tested:	2 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-73-01

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 16												
Moisture Content (%)	119										**119**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 17												
Moisture Content (%)	113										**113**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

November 13, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com email: jstewart@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-74-07
Material(s) Tested:	2 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-74-07

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 18												
Moisture Content (%)	74										**74**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 19												
Moisture Content (%)	68										**68**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

November 14, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com email: jstewart@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-75-05
Material(s) Tested:	2 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-75-05

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 20												
Moisture Content (%)	91										**91**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 21												
Moisture Content (%)	64										**64**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

November 15, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com email: jstewart@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-76-02
Material(s) Tested:	1 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-76-02

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 22												
Moisture Content (%)	64										**64**	

Note: Bentonite sample tested is taken from finished GCL product.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

November 19, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com email: jstewart@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-76-06
Material(s) Tested:	1 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-76-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 23												
Moisture Content (%)	78										**78**	

Note: Bentonite sample tested is taken from finished GCL product.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
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November 26, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com email: jstewart@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-78-04
Material(s) Tested:	3 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-78-04

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 24												
Moisture Content (%)	88										**88**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 25												
Moisture Content (%)	100										**100**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 26												
Moisture Content (%)	88										**88**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

December 3, 2007

Mail To:	**Bill To:**
Mr. Greg Corcoran **Geosyntec Consultants** 10875 Rancho Bernardo Rd. Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com email: jstewart@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-80-06
Material(s) Tested:	6 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-80-06

PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	6	7	8	9	10	MEAN	STD. DEV.
Sample Identification: 27												
Moisture Content (%)	101.9										**102**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 28												
Moisture Content (%)	134.2										**134**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 29												
Moisture Content (%)	82.7										**83**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 30												
Moisture Content (%)	71.6										**72**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 31												
Moisture Content (%)	151.3										**151**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 32												
Moisture Content (%)	92.3										**92**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
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December 12, 2007

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Rd. Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
email: jstewart@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**Denison Mines**
TRI Job Reference Number:	E2279-83-09
Material(s) Tested:	5 GCL(s)
Test(s) Requested:	Bentonite - Moisture Content (ASTM D 2216, Method A)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

John M. Allen, E.I.T
Director of Geosynthetics Interaction Laboratory
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GCL TEST RESULTS

TRI Client: Geosyntec Consultants
Project: Denison Mines

Material: GCL
Bentonite - Moisture Content (ASTM D 2216, Method A)
TRI Log #: E2279-83-09

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 33												
Moisture Content (%)	93.1										**93**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 34												
Moisture Content (%)	117.6										**118**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 35												
Moisture Content (%)	69.6										**70**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 36												
Moisture Content (%)	138.6										**139**	
Note: Bentonite sample tested is taken from finished GCL product.												
Sample Identification: 37												
Moisture Content (%)	128.0										**128**	
Note: Bentonite sample tested is taken from finished GCL product.												

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

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APPENDIX I

GEONET

APPENDIX I-1

MATERIAL INVENTORY LOG

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100001	UTCX51681	3045	0.9554	0.385	324	2.62	116	9.73E-03				yes	yes
2100002	UTCX51681	3045	0.9554									yes	yes
2100003	UTCX51681	3045	0.9554									yes	yes
2100004	UTCX51681	3045	0.9554						325	316	1.09E-02	yes	yes
2100005	UTCX51681	3045	0.9554									yes	yes
2100006	UTCX51681	3045	0.9554									yes	yes
2100007	UTCX51681	3045	0.9554									yes	yes
2100008	UTCX51681	3045	0.9554									yes	yes
2100009	UTCX51681	3045	0.9554									yes	yes
2100010	UTCX51681	3045	0.9554									yes	yes
2100011	UTCX51681	3045	0.9554									yes	yes
2100012	UTCX51681	3045	0.9554									yes	yes
2100013	UTCX51681	3045	0.9554									yes	yes
2100014	UTCX51681	3045	0.9554									yes	yes
2100015	UTCX51681	3045	0.9554	0.380	321	2.54	111					yes	yes
2100016	UTCX51681	3045	0.9554									yes	yes
2100017	UTCX51681	3045	0.9554									yes	yes
2100018	UTCX51681	3045	0.9554									yes	yes
2100019	UTCX51681	3045	0.9554									yes	yes
2100020	UTCX51681	3045	0.9554									yes	yes
2100021	UTCX51681	3045	0.9554									yes	yes
2100022	UTCX51681	3045	0.9554									yes	yes
2100023	UTCX51681	3045	0.9554									yes	yes
2100024	UTCX51681	3045	0.9554									yes	yes
2100025	UTCX51681	3045	0.9554									yes	yes
2100026	UTCX51681	3045	0.9554									yes	yes
2100027	UTCX51681	3045	0.9554									yes	yes
2100028	UTCX51681	3045	0.9554									yes	yes
2100029	UTCX51681	3045	0.9554									yes	yes
2100030	UTCX51681	3045	0.9554	0.387	326	2.68	114	9.70E-03				yes	yes
2100031	UTCX51681	3045	0.9554									yes	yes
2100032	UTCX51681	3045	0.9554									yes	yes
2100033	UTCX51681	3045	0.9554									yes	yes
2100034	UTCX51681	3045	0.9554									yes	yes
2100035	UTCX51681	3045	0.9554									yes	yes
2100036	UTCX51681	3045	0.9554									yes	yes
2100037	UTCX51681	3045	0.9554									yes	yes
2100038	UTCX51681	3045	0.9554									yes	yes
2100039	UTCX51681	3045	0.9554									yes	yes
2100040	UTCX51681	3045	0.9554									yes	yes
2100041	UTCX51681	3045	0.9554									yes	yes
2100042	UTCX51681	3045	0.9554									yes	yes
2100043	UTCX51681	3045	0.9554									yes	yes
2100044	UTCX51681	3045	0.9554									yes	yes
2100045	UTCX51681	3045	0.9554	0.378	319	2.46	109					yes	yes
2100046	UTCX51681	3045	0.9554									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100047	UTCX51681	3045	0.9554									yes	yes
2100048	UTCX51681	3045	0.9554									yes	yes
2100049	UTCX51681	3045	0.9554									yes	yes
2100050	UTCX51681	3045	0.9554									yes	yes
2100051	UTCX51681	3045	0.9554									yes	yes
2100052	UTCX51681	3045	0.9554									yes	yes
2100053	UTCX51681	3045	0.9554									yes	yes
2100054	UTCX51681	3045	0.9554									yes	yes
2100055	UTCX51681	3045	0.9554									yes	yes
2100056	UTCX51681	3045	0.9554									yes	yes
2100057	UTCX51681	3045	0.9554									yes	yes
2100058	UTCX51681	3045	0.9554									yes	yes
2100059	UTCX51681	3045	0.9554									yes	yes
2100060	UTCX51681	3045	0.9554	0.389	328	2.72	112	9.79E-03				yes	yes
2100061	UTCX51681	3045	0.9554									yes	yes
2100062	UTCX51681	3045	0.9554									yes	yes
2100063	UTCX51681	3045	0.9554									yes	yes
2100064	UTCX51681	3045	0.9554									yes	yes
2100065	UTCX51681	3045	0.9554									yes	yes
2100066	UTCX51681	3045	0.9554									yes	yes
2100067	UTCX51681	3045	0.9554									yes	yes
2100068	UTCX51681	3045	0.9554									yes	yes
2100069	UTCX51681	3045	0.9554									yes	yes
2100070	UTCX51681	3045	0.9554									yes	yes
2100071	UTCX51681	3045	0.9554									yes	yes
2100072	UTCX51681	3045	0.9554									yes	yes
2100073	UTCX51681	3045	0.9554									yes	yes
2100074	UTCX51681	3045	0.9554									yes	yes
2100075	UTCX51681	3045	0.9554	0.376	317	2.50	108					yes	yes
2100076	UTCX51681	3045	0.9554									yes	yes
2100077	UTCX51681	3045	0.9554									yes	yes
2100078	UTCX51681	3045	0.9554									yes	yes
2100079	UTCX51681	3045	0.9554									yes	yes
2100080	UTCX51681	3045	0.9554									yes	yes
2100081	UTCX51681	3045	0.9554									yes	yes
2100082	UTCX51681	3045	0.9554						330	318		yes	yes
2100083	UTCX51681	3045	0.9554									yes	yes
2100084	UTCX51681	3045	0.9554									yes	yes
2100085	UTCX51681	3045	0.9554									yes	yes
2100086	UTCX51681	3045	0.9554									yes	yes
2100087	UTCX51681	3045	0.9554									yes	yes
2100088	UTCX51681	3045	0.9554									yes	yes
2100089	UTCX51681	3045	0.9554									yes	yes
2100090	UTCX51681	3045	0.9554	0.383	322	2.66	115	9.62E-03				yes	yes
2100091	UTCX51681	3045	0.9554									yes	yes
2100092	UTCX51681	3045	0.9554									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100093	UTCX51681	3045	0.9554									yes	yes
2100094	UTCX51681	3045	0.9554									yes	yes
2100095	UTCX51681	3045	0.9554									yes	yes
2100096	UTCX51681	3045	0.9554									yes	yes
2100097	UTCX51681	3045	0.9554									yes	yes
2100098	UTCX51681	3045	0.9554									yes	yes
2100099	UTCX51681	3045	0.9554									yes	yes
2100100	UTCX51681	3045	0.9554									yes	yes
2100101	UTCX51681	3045	0.9554									yes	yes
2100102	UTCX51681	3045	0.9554									yes	yes
2100103	UTCX51681	3045	0.9554									yes	yes
2100104	UTCX51681	3045	0.9554									yes	yes
2100105	UTCX51681	3045	0.9554	0.374	316	2.42	110					yes	yes
2100106	UTCX51681	3045	0.9554									yes	yes
2100107	UTCX51681	3045	0.9554									yes	yes
2100108	UTCX51681	3045	0.9554									yes	yes
2100109	UTCX51681	3045	0.9554									yes	yes
2100110	UTCX51681	3045	0.9554									yes	yes
2100111	UTCX51681	3045	0.9554									yes	yes
2100112	UTCX51681	3045	0.9554									yes	yes
2100113	UTCX51681	3045	0.9554									yes	yes
2100114	UTCX51681	3045	0.9554									yes	yes
2100115	UTCX51681	3045	0.9554									yes	yes
2100116	UTCX51681	3045	0.9554									yes	yes
2100117	UTCX51681	3045	0.9554									yes	yes
2100118	UTCX51681	3045	0.9554									yes	yes
2100119	UTCX51681	3045	0.9554									yes	yes
2100120	UTCX51681	3045	0.9554	0.381	325	2.64	113	9.81E-03				yes	yes
2100121	UTCX51681	3045	0.9554									yes	yes
2100122	UTCX51681	3045	0.9554									yes	yes
2100123	UTCX51681	3045	0.9554									yes	yes
2100124	UTCX51681	3045	0.9554									yes	yes
2100125	UTCX51681	3045	0.9554									yes	yes
2100126	UTCX51681	3045	0.9554									yes	yes
2100127	UTCX51681	3045	0.9554									yes	yes
2100128	UTCX51681	3045	0.9554									yes	yes
2100129	UTCX51681	3045	0.9554									yes	yes
2100130	UTCX51681	3045	0.9554									yes	yes
2100131	UTCX51681	3045	0.9554									yes	yes
2100132	UTCX51681	3045	0.9554									yes	yes
2100133	UTCX51681	3045	0.9554									yes	yes
2100134	UTCX51681	3045	0.9554									yes	yes
2100135	UTCX51681	3045	0.9554	0.372	320	2.52	109					yes	yes
2100136	UTCX51681	3045	0.9554									yes	yes
2100137	UTCX51681	3045	0.9554									yes	yes
2100138	UTCX51681	3045	0.9554									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100139	UTCX51681	3045	0.9554									yes	yes
2100140	UTCX51681	3045	0.9554									yes	yes
2100141	UTCX51681	3045	0.9554									yes	yes
2100142	UTCX51681	3045	0.9554									yes	yes
2100143	UTCX51681	3045	0.9554									yes	yes
2100144	UTCX51681	3045	0.9554									yes	yes
2100145	UTCX51681	3045	0.9554									yes	yes
2100146	UTCX51681	3045	0.9554									yes	yes
2100147	UTCX51681	3045	0.9554									yes	yes
2100148	UTCX51681	3045	0.9554									yes	yes
2100149	UTCX51681	3045	0.9554									yes	yes
2100150	UTCX51681	3045	0.9554	0.388	323	2.70	116	9.68E-03				yes	yes
2100151	UTCX51681	3045	0.9554									yes	yes
2100152	UTCX51681	3045	0.9554									yes	yes
2100153	UTCX51681	3045	0.9554									yes	yes
2100154	UTCX51681	3045	0.9554									yes	yes
2100155	UTCX51681	3045	0.9554									yes	yes
2100156	UTCX51681	3045	0.9554									yes	yes
2100157	UTCX51681	3045	0.9554									yes	yes
2100158	UTCX51681	3045	0.9554									yes	yes
2100159	UTCX51681	3045	0.9554									yes	yes
2100160	UTCX51681	3045	0.9554									yes	yes
2100161	UTCX51681	3045	0.9554									yes	yes
2100162	UTCX51681	3045	0.9554						314	306	1.04E-02	yes	yes
2100163	UTCX51681	3045	0.9554									yes	yes
2100164	UTCX51681	3045	0.9554									yes	yes
2100165	RTF120722	3045	0.9550	0.379	318	2.48	108					yes	yes
2100166	RTF120722	3045	0.9550									yes	yes
2100167	RTF120722	3045	0.9550									yes	yes
2100168	RTF120722	3045	0.9550									yes	yes
2100169	RTF120722	3045	0.9550									yes	yes
2100170	RTF120722	3045	0.9550									yes	yes
2100171	RTF120722	3045	0.9550									yes	yes
2100172	RTF120722	3045	0.9550									yes	yes
2100173	RTF120722	3045	0.9550									yes	yes
2100174	RTF120722	3045	0.9550									yes	yes
2100175	RTF120722	3045	0.9550									yes	yes
2100176	RTF120722	3045	0.9550									yes	yes
2100177	RTF120722	3045	0.9550									yes	yes
2100178	RTF120722	3045	0.9550									yes	yes
2100179	RTF120722	3045	0.9550									yes	yes
2100180	RTF120722	3045	0.9550	0.386	327	2.78	114	9.75E-03				yes	yes
2100181	RTF120722	3045	0.9550									yes	yes
2100182	RTF120722	3045	0.9550									yes	yes
2100183	RTF120722	3045	0.9550									yes	yes
2100184	RTF120722	3045	0.9550									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100185	RTF120722	3045	0.9550									yes	yes
2100186	RTF120722	3045	0.9550									yes	yes
2100187	RTF120722	3045	0.9550									yes	yes
2100188	RTF120722	3045	0.9550									yes	yes
2100189	RTF120722	3045	0.9550									yes	yes
2100190	RTF120722	3045	0.9550									yes	yes
2100191	RTF120722	3045	0.9550									yes	yes
2100192	RTF120722	3045	0.9550									yes	yes
2100193	RTF120722	3045	0.9550									yes	yes
2100194	RTF120722	3045	0.9550									yes	yes
2100195	RTF120722	3045	0.9550									yes	yes
2100196	RTF120722	3045	0.9550	0.377	316	2.44	110					yes	yes
2100197	RTF120722	3045	0.9550									yes	yes
2100198	RTF120722	3045	0.9550									yes	yes
2100199	RTF120722	3045	0.9550									yes	yes
2100200	RTF120722	3045	0.9550									yes	yes
2100201	RTF120722	3045	0.9550									yes	yes
2100202	RTF120722	3045	0.9550									yes	yes
2100203	RTF120722	3045	0.9550									yes	yes
2100204	RTF120722	3045	0.9550									yes	yes
2100205	RTF120722	3045	0.9550									yes	yes
2100206	RTF120722	3045	0.9550									yes	yes
2100207	RTF120722	3045	0.9550									yes	yes
2100208	RTF120722	3045	0.9550									yes	yes
2100209	RTF120722	3045	0.9550									yes	yes
2100210	RTF120722	3045	0.9550	0.384	322	2.74	115	9.66E-03				yes	yes
2100211	RTF120722	3045	0.9550									yes	yes
2100212	RTF120722	3045	0.9550									yes	yes
2100213	RTF120722	3045	0.9550									yes	yes
2100214	RTF120722	3045	0.9550									yes	yes
2100215	RTF120722	3045	0.9550									yes	yes
2100216	RTF120722	3045	0.9550						321	314		yes	yes
2100217	RTF120722	3045	0.9550									yes	yes
2100218	RTF120722	3045	0.9550									yes	yes
2100219	RTF120722	3045	0.9550									yes	yes
2100220	RTF120722	3045	0.9550									yes	yes
2100221	RTF120722	3045	0.9550									yes	yes
2100222	RTF120722	3045	0.9550									yes	yes
2100223	RTF120722	3045	0.9550									yes	yes
2100224	RTF120722	3045	0.9550									yes	yes
2100225	RTF120722	3045	0.9550	0.375	319	2.40	111					yes	yes
2100226	RTF120722	3045	0.9550									yes	yes
2100227	RTF120722	3045	0.9550									yes	yes
2100228	RTF120722	3045	0.9550									yes	yes
2100229	RTF120722	3045	0.9550									yes	yes
2100230	RTF120722	3045	0.9550									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100231	RTF120722	3045	0.9550									yes	yes
2100232	RTF120722	3045	0.9550									yes	yes
2100233	RTF120722	3045	0.9550									yes	yes
2100234	RTF120722	3045	0.9550									yes	yes
2100235	RTF120722	3045	0.9550									yes	yes
2100236	RTF120722	3045	0.9550									yes	yes
2100237	RTF120722	3045	0.9550									yes	yes
2100238	RTF120722	3045	0.9550									yes	yes
2100239	RTF120722	3045	0.9550									yes	yes
2100240	RTF120722	3045	0.9550	0.382	325	2.76	113	9.77E-03				yes	yes
2100241	RTF120722	3045	0.9550									yes	yes
2100242	RTF120722	3045	0.9550									yes	yes
2100243	RTF120722	3045	0.9550									yes	yes
2100244	RTF120722	3045	0.9550									yes	yes
2100245	RTF120722	3045	0.9550									yes	yes
2100246	RTF120722	3045	0.9550									yes	yes
2100247	RTF120722	3045	0.9550									yes	yes
2100248	RTF120722	3045	0.9550									yes	yes
2100249	RTF120722	3045	0.9550									yes	yes
2100250	RTF120722	3045	0.9550									yes	yes
2100251	RTF120722	3045	0.9550									yes	yes
2100252	RTF120722	3045	0.9550									yes	yes
2100253	RTF120722	3045	0.9550									yes	yes
2100254	RTF120722	3045	0.9550									yes	yes
2100255	RTF120722	3045	0.9550	0.373	321	2.36	108					yes	yes
2100256	RTF120722	3045	0.9550									yes	yes
2100257	RTF120722	3045	0.9550									yes	yes
2100258	RTF120722	3045	0.9550									yes	yes
2100259	RTF120722	3045	0.9550									yes	yes
2100260	RTF120722	3045	0.9550									yes	yes
2100261	RTF120722	3045	0.9550									yes	yes
2100262	RTF120722	3045	0.9550									yes	yes
2100263	RTF120722	3045	0.9550									yes	yes
2100264	RTF120722	3045	0.9550									yes	yes
2100265	RTF120722	3045	0.9550									yes	yes
2100266	RTF120722	3045	0.9550									yes	yes
2100267	RTF120722	3045	0.9550									yes	yes
2100268	RTF120722	3045	0.9550									yes	yes
2100269	RTF120722	3045	0.9550									yes	yes
2100270	RTF120722	3045	0.9550	0.380	327	2.80	116	9.64E-03				yes	yes
2100271	RTF120722	3045	0.9550									yes	yes
2100272	RTF120722	3045	0.9550									yes	yes
2100273	RTF120722	3045	0.9550									yes	yes
2100274	RTF120722	3045	0.9550									yes	yes
2100275	RTF120722	3045	0.9550									yes	yes
2100276	RTF120722	3045	0.9550									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100277	RTF120722	3045	0.9550									yes	yes
2100278	RTF120722	3045	0.9550									yes	yes
2100279	RTF120722	3045	0.9550									yes	yes
2100280	RTF120722	3045	0.9550									yes	yes
2100281	RTF120722	3045	0.9550									yes	yes
2100282	RTF120722	3045	0.9550									yes	yes
2100283	RTF120722	3045	0.9550									yes	yes
2100284	RTF120722	3045	0.9550									yes	yes
2100285	RTF120722	3045	0.9550	0.371	317	2.30	111					yes	yes
2100286	RTF120722	3045	0.9550									yes	yes
2100287	RTF120722	3045	0.9550									yes	yes
2100288	RTF120722	3045	0.9550									yes	yes
2100289	RTF120722	3045	0.9550									yes	yes
2100290	RTF120722	3045	0.9550									yes	yes
2100291	RTF120722	3045	0.9550									yes	yes
2100292	RTF120722	3045	0.9550									yes	yes
2100293	RTF120722	3045	0.9550									yes	yes
2100294	RTF120722	3045	0.9550									yes	yes
2100295	RTF120722	3045	0.9550									yes	yes
2100296	RTF120722	3045	0.9550						318	304	9.84E-03	yes	yes
2100297	RTF120722	3045	0.9550									yes	yes
2100298	RTF120722	3045	0.9550									yes	yes
2100299	RTF120722	3045	0.9550									yes	yes
2100300	RTF120722	3045	0.9550	0.388	323	2.56	114	9.89E-03				yes	yes
2100301	RTF120722	3045	0.9550									yes	yes
2100302	RTF120722	3045	0.9550									yes	yes
2100303	RTF120722	3045	0.9550									yes	yes
2100304	RTF120722	3045	0.9550									yes	yes
2100305	RTF120722	3045	0.9550									yes	yes
2100306	RTF120722	3045	0.9550									yes	yes
2100307	RTF120722	3045	0.9550									yes	yes
2100308	RTF120722	3045	0.9550									yes	yes
2100309	RTF120722	3045	0.9550									yes	yes
2100310	RTF120722	3045	0.9550									yes	yes
2100311	RTF120722	3045	0.9550									yes	yes
2100312	RTF120722	3045	0.9550									yes	yes
2100313	RTF120722	3045	0.9550									yes	yes
2100314	RTF120722	3045	0.9550									yes	yes
2100315	RTF120722	3045	0.9550	0.378	316	2.34	109					yes	yes
2100316	RTF120722	3045	0.9550									yes	yes
2100317	RTF120722	3045	0.9550									yes	yes
2100318	RTF120722	3045	0.9550									yes	yes
2100319	RTF120722	3045	0.9550									yes	yes
2100320	RTF120722	3045	0.9550									yes	yes
2100321	RTF120722	3045	0.9550									yes	yes
2100322	RTF120722	3045	0.9550									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100323	RTF120722	3045	0.9550									yes	yes
2100324	RTF120722	3045	0.9550									yes	yes
2100325	RTF120722	3045	0.9550									yes	yes
2100326	RTF120722	3045	0.9550									yes	yes
2100327	RTF120722	3045	0.9550									yes	yes
2100328	RTF120722	3045	0.9550									yes	yes
2100329	RTF120722	3045	0.9550									yes	yes
2100330	8160667	3045	0.9532	0.386	326	2.60	112	9.72E-03				yes	yes
2100331	8160667	3045	0.9532									yes	yes
2100332	8160667	3045	0.9532									yes	yes
2100333	8160667	3045	0.9532									yes	yes
2100334	8160667	3045	0.9532									yes	yes
2100335	8160667	3045	0.9532									yes	yes
2100336	8160667	3045	0.9532									yes	yes
2100337	8160667	3045	0.9532									yes	yes
2100338	8160667	3045	0.9532									yes	yes
2100339	8160667	3045	0.9532									yes	yes
2100340	8160667	3045	0.9532									yes	yes
2100341	8160667	3045	0.9532									yes	yes
2100342	8160667	3045	0.9532									yes	yes
2100343	8160667	3045	0.9532									yes	yes
2100344	8160667	3045	0.9532									yes	yes
2100345	8160667	3045	0.9537	0.376	320	2.38	108					yes	yes
2100346	8160667	3045	0.9537									yes	yes
2100347	8160667	3045	0.9537									yes	yes
2100348	8160667	3045	0.9537									yes	yes
2100349	8160667	3045	0.9537									yes	yes
2100350	8160667	3045	0.9537									yes	yes
2100351	8160667	3045	0.9537									yes	yes
2100352	8160667	3045	0.9537									yes	yes
2100353	8160667	3045	0.9537									yes	yes
2100354	8160667	3045	0.9537									yes	yes
2100355	8160667	3045	0.9537									yes	yes
2100356	8160667	3045	0.9537									yes	yes
2100357	8160667	3045	0.9537									yes	yes
2100358	8160667	3045	0.9537									yes	yes
2100359	8160667	3045	0.9537									yes	yes
2100360	8160667	3045	0.9534	0.384	324	2.58	115	9.83E-03				yes	yes
2100361	8160667	3045	0.9534									yes	yes
2100362	8160667	3045	0.9534									yes	yes
2100363	8160667	3045	0.9534						322	314		yes	yes
2100364	8160667	3045	0.9534									yes	yes
2100365	8160667	3045	0.9534									yes	yes
2100366	8160667	3045	0.9534									yes	yes
2100367	8160667	3045	0.9534									yes	yes
2100368	8160667	3045	0.9534									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100369	8160667	3045	0.9534									yes	yes
2100370	8160667	3045	0.9534									yes	yes
2100371	8160667	3045	0.9534									yes	yes
2100372	8160667	3045	0.9534									yes	yes
2100373	8160667	3045	0.9534									yes	yes
2100374	8160667	3045	0.9534									yes	yes
2100375	8160667	3045	0.9538	0.374	318	2.32	110					yes	yes
2100376	8160667	3045	0.9538									yes	yes
2100377	8160667	3045	0.9538									yes	yes
2100378	8160667	3045	0.9538									yes	yes
2100379	8160667	3045	0.9538									yes	yes
2100380	8160667	3045	0.9538									yes	yes
2100381	8160667	3045	0.9538									yes	yes
2100382	8160667	3045	0.9538									yes	yes
2100383	8160667	3045	0.9538									yes	yes
2100384	8160667	3045	0.9538									yes	yes
2100385	8160667	3045	0.9538									yes	yes
2100386	8160667	3045	0.9538									yes	yes
2100387	8160667	3045	0.9538									yes	yes
2100388	8160667	3045	0.9538									yes	yes
2100389	8160667	3045	0.9538									yes	yes
2100390	8160667	3045	0.9530	0.382	328	2.73	113	9.70E-03				yes	yes
2100391	8160667	3045	0.9530									yes	yes
2100392	8160667	3045	0.9530									yes	yes
2100393	8160667	3045	0.9530									yes	yes
2100394	8160667	3045	0.9530									yes	yes
2100395	8160667	3045	0.9530									yes	yes
2100396	8160667	3045	0.9530									yes	yes
2100397	8160667	3045	0.9530									yes	yes
2100398	8160667	3045	0.9530									yes	yes
2100399	8160667	3045	0.9530									yes	yes
2100400	8160667	3045	0.9530									yes	yes
2100401	8160667	3045	0.9530									yes	yes
2100402	8160667	3045	0.9530									yes	yes
2100403	8160667	3045	0.9530									yes	yes
2100404	8160667	3045	0.9530									yes	yes
2100405	8160667	3045	0.9536	0.372	317	2.28	109					yes	yes
2100406	8160667	3045	0.9536									yes	yes
2100407	8160667	3045	0.9536									yes	yes
2100408	8160667	3045	0.9536									yes	yes
2100409	8160667	3045	0.9536									yes	yes
2100410	8160667	3045	0.9536									yes	yes
2100411	8160667	3045	0.9536									yes	yes
2100412	8160667	3045	0.9536									yes	yes
2100413	8160667	3045	0.9536									yes	yes
2100414	8160667	3045	0.9536									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100415	8160667	3045	0.9536									yes	yes
2100416	8160667	3045	0.9536									yes	yes
2100417	8160667	3045	0.9536									yes	yes
2100418	8160667	3045	0.9536									yes	yes
2100419	8160667	3045	0.9536									yes	yes
2100420	8160667	3045	0.9531	0.380	324	2.79	116	9.87E-03				yes	yes
2100421	8160667	3045	0.9531									yes	yes
2100422	8160667	3045	0.9531									yes	yes
2100423	8160667	3045	0.9531									yes	yes
2100424	8160667	3045	0.9531									yes	yes
2100425	8160667	3045	0.9531									yes	yes
2100426	8160667	3045	0.9531									yes	yes
2100427	8160667	3045	0.9531									yes	yes
2100428	8160667	3045	0.9531									yes	yes
2100429	8160667	3045	0.9531									yes	yes
2100430	8160667	3045	0.9531									yes	yes
2100431	8160667	3045	0.9531									yes	yes
2100432	8160667	3045	0.9531						324	314	1.05E-02	yes	yes
2100433	8160667	3045	0.9531									yes	yes
2100434	8160667	3045	0.9531									yes	yes
2100435	8160667	3045	0.9535	0.371	321	2.26	108					yes	yes
2100436	8160667	3045	0.9535									yes	yes
2100437	8160667	3045	0.9535									yes	yes
2100438	8160667	3045	0.9535									yes	yes
2100439	8160667	3045	0.9535									yes	yes
2100440	8160667	3045	0.9535									yes	yes
2100441	8160667	3045	0.9535									yes	yes
2100442	8160667	3045	0.9535									yes	yes
2100443	8160667	3045	0.9535									yes	yes
2100444	8160667	3045	0.9535									yes	yes
2100445	8160667	3045	0.9535									yes	yes
2100446	8160667	3045	0.9535									yes	yes
2100447	8160667	3045	0.9535									yes	yes
2100448	8160667	3045	0.9535									yes	yes
2100449	8160667	3045	0.9535									yes	yes
2100450	8160667	3045	0.9533	0.385	326	2.71	114	9.78E-03				yes	yes
2100451	8160667	3045	0.9533									yes	yes
2100452	8160667	3045	0.9533									yes	yes
2100453	8160667	3045	0.9533									yes	yes
2100454	8160667	3045	0.9533									yes	yes
2100455	8160667	3045	0.9533									yes	yes
2100456	8160667	3045	0.9533									yes	yes
2100457	8160667	3045	0.9533									yes	yes
2100458	8160667	3045	0.9533									yes	yes
2100459	8160667	3045	0.9533									yes	yes
2100460	8160667	3045	0.9533									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100461	8160667	3045	0.9533									yes	yes
2100462	8160667	3045	0.9533									yes	yes
2100463	8160667	3045	0.9533									yes	yes
2100464	8160667	3045	0.9533									yes	yes
2100465	8160667	3045	0.9539	0.379	319	2.53	110					yes	yes
2100466	8160667	3045	0.9539									yes	yes
2100467	8160667	3045	0.9539									yes	yes
2100468	8160667	3045	0.9539									yes	yes
2100469	8160667	3045	0.9539									yes	yes
2100470	8160667	3045	0.9539									yes	yes
2100471	8160667	3045	0.9539									yes	yes
2100472	8160667	3045	0.9539									yes	yes
2100473	8160667	3045	0.9539									yes	yes
2100474	8160667	3045	0.9539									yes	yes
2100475	8160667	3045	0.9539									yes	yes
2100476	8160667	3045	0.9539									yes	yes
2100477	8160667	3045	0.9539									yes	yes
2100478	8160667	3045	0.9539									yes	yes
2100479	8160667	3045	0.9539									yes	yes
2100480	8160667	3045	0.9534	0.387	328	2.69	115	9.85E-03				yes	yes
2100481	8160667	3045	0.9534									yes	yes
2100482	8160667	3045	0.9534									yes	yes
2100483	8160667	3045	0.9534									yes	yes
2100484	8160667	3045	0.9534									yes	yes
2100485	8160667	3045	0.9534									yes	yes
2100486	8160667	3045	0.9534									yes	yes
2100487	8160667	3045	0.9534									yes	yes
2100488	8160667	3045	0.9534									yes	yes
2100489	8160667	3045	0.9534									yes	yes
2100490	8160667	3045	0.9534									yes	yes
2100491	8160667	3045	0.9534									yes	yes
2100492	8160667	3045	0.9534									yes	yes
2100493	8160667	3045	0.9534									yes	yes
2100494	8160667	3045	0.9534									yes	yes
2100495	CCBX715665	3045	0.9562	0.317	317	2.49	111					yes	yes
2100496	CCBX715665	3045	0.9562									yes	yes
2100497	CCBX715665	3045	0.9562									yes	yes
2100498	CCBX715665	3045	0.9562									yes	yes
2100499	CCBX715665	3045	0.9562									yes	yes
2100500	CCBX715665	3045	0.9562						327	316		yes	yes
2100501	CCBX715665	3045	0.9562									yes	yes
2100502	CCBX715665	3045	0.9562									yes	yes
2100503	CCBX715665	3045	0.9562									yes	yes
2100504	CCBX715665	3045	0.9562									yes	yes
2100505	CCBX715665	3045	0.9562									yes	yes
2100506	CCBX715665	3045	0.9562									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100507	CCBX715665	3045	0.9562									yes	yes
2100508	CCBX715665	3045	0.9562									yes	yes
2100509	CCBX715665	3045	0.9562									yes	yes
2100510	CCBX715665	3045	0.9562	0.389	322	2.75	113	9.74E-03				yes	yes
2100511	CCBX715665	3045	0.9562									yes	yes
2100512	CCBX715665	3045	0.9562									yes	yes
2100513	CCBX715665	3045	0.9562									yes	yes
2100514	CCBX715665	3045	0.9534									yes	yes
2100515	CCBX715665	3045	0.9534									yes	yes
2100516	CCBX715665	3045	0.9534									yes	yes
2100517	CCBX715665	3045	0.9534									yes	yes
2100518	CCBX715665	3045	0.9534									yes	yes
2100519	CCBX715665	3045	0.9534									yes	yes
2100520	CCBX715665	3045	0.9534									yes	yes
2100521	CCBX715665	3045	0.9534									yes	yes
2100522	CCBX715665	3045	0.9534									yes	yes
2100523	CCBX715665	3045	0.9534									yes	yes
2100524	CCBX715665	3045	0.9534									yes	yes
2100525	CCBX715665	3045	0.9534	0.375	316	2.51	109					yes	yes
2100526	CCBX715665	3045	0.9534									yes	yes
2100527	CCBX715665	3045	0.9534									yes	yes
2100528	CCBX715665	3045	0.9534									yes	yes
2100529	CCBX715665	3045	0.9534									yes	yes
2100530	CCBX715665	3045	0.9534									yes	yes
2100531	CCBX715665	3045	0.9534									yes	yes
2100532	CCBX715665	3045	0.9534									yes	yes
2100533	CCBX715665	3045	0.9534									yes	yes
2100534	CCBX715665	3045	0.9534									yes	yes
2100535	CCBX715665	3045	0.9534									yes	yes
2100536	CCBX715665	3045	0.9534									yes	yes
2100537	CCBX715665	3045	0.9534									yes	yes
2100538	CCBX715665	3045	0.9534									yes	yes
2100539	CCBX715665	3045	0.9534									yes	yes
2100540	CCBX715665	3045	0.9534	0.383	325	2.77	116	9.99E-03				yes	yes
2100541	CCBX715665	3045	0.9534									yes	yes
2100542	CCBX715665	3045	0.9534									yes	yes
2100543	CCBX715665	3045	0.9534									yes	yes
2100544	CCBX715665	3045	0.9534									yes	yes
2100545	CCBX715665	3045	0.9534									yes	yes
2100546	CCBX715665	3045	0.9534									yes	yes
2100547	CCBX715665	3045	0.9534									yes	yes
2100548	CCBX715665	3045	0.9534									yes	yes
2100549	CCBX715665	3045	0.9534									yes	yes
2100550	CCBX715665	3045	0.9534									yes	yes
2100551	CCBX715665	3045	0.9534									yes	yes
2100552	CCBX715665	3045	0.9534									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100553	CCBX715665	3045	0.9534						327	313	1.17E-02	yes	yes
2100554	CCBX715665	3045	0.9534									yes	yes
2100555	CCBX715665	3045	0.9534	0.373	320	2.47	111					yes	yes
2100556	CCBX715665	3045	0.9534									yes	yes
2100557	CCBX715665	3045	0.9534									yes	yes
2100558	CCBX715665	3045	0.9534									yes	yes
2100559	CCBX715665	3045	0.9534									yes	yes
2100560	CCBX715665	3045	0.9534									yes	yes
2100561	CCBX715665	3045	0.9534									yes	yes
2100562	CCBX715665	3045	0.9534									yes	yes
2100563	CCBX715665	3045	0.9534									yes	yes
2100564	CCBX715665	3045	0.9534									yes	yes
2100565	CCBX715665	3045	0.9534									yes	yes
2100566	CCBX715665	3045	0.9534									yes	yes
2100567	CCBX715665	3045	0.9534									yes	yes
2100568	CCBX715665	3045	0.9534									yes	yes
2100569	CCBX715665	3045	0.9534									yes	yes
2100570	CCBX715665	3045	0.9534	0.381	323	2.63	114	9.76E-03				yes	yes
2100571	CCBX715665	3045	0.9534									yes	yes
2100572	CCBX715665	3045	0.9534									yes	yes
2100573	CCBX715665	3045	0.9534									yes	yes
2100574	CCBX715665	3045	0.9534									yes	yes
2100575	CCBX715665	3045	0.9534									yes	yes
2100576	CCBX715665	3045	0.9534									yes	yes
2100577	CCBX715665	3045	0.9534									yes	yes
2100578	CCBX715665	3045	0.9534									yes	yes
2100579	CCBX715665	3045	0.9534									yes	yes
2100580	CCBX715665	3045	0.9534									yes	yes
2100581	CCBX715665	3045	0.9534									yes	yes
2100582	CCBX715665	3045	0.9534									yes	yes
2100583	CCBX715665	3045	0.9534									yes	yes
2100584	CCBX715665	3045	0.9534									yes	yes
2100585	CCBX715665	3045	0.9534	0.372	318	2.39	108					yes	yes
2100586	CCBX715665	3045	0.9534									yes	yes
2100587	CCBX715665	3045	0.9534									yes	yes
2100588	CCBX715665	3045	0.9534									yes	yes
2100589	CCBX715665	3045	0.9534									yes	yes
2100590	CCBX715665	3045	0.9534									yes	yes
2100591	CCBX715665	3045	0.9534									yes	yes
2100592	CCBX715665	3045	0.9534									yes	yes
2100593	CCBX715665	3045	0.9534									yes	yes
2100594	CCBX715665	3045	0.9534									yes	yes
2100595	CCBX715665	3045	0.9534									yes	yes
2100596	CCBX715665	3045	0.9534									yes	yes
2100597	CCBX715665	3045	0.9534									yes	yes
2100598	CCBX715665	3045	0.9534									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100599	CCBX715665	3045	0.9534									yes	yes
2100600	CCBX715665	3045	0.9534	0.385	327	2.67	116	9.91E-03				yes	yes
2100601	CCBX715665	3045	0.9534									yes	yes
2100602	CCBX715665	3045	0.9534									yes	yes
2100603	CCBX715665	3045	0.9534									yes	yes
2100604	CCBX715665	3045	0.9534									yes	yes
2100605	CCBX715665	3045	0.9534									yes	yes
2100606	CCBX715665	3045	0.9534									yes	yes
2100607	CCBX715665	3045	0.9534									yes	yes
2100608	CCBX715665	3045	0.9534									yes	yes
2100609	CCBX715665	3045	0.9534									yes	yes
2100610	CCBX715665	3045	0.9534									yes	yes
2100611	CCBX715665	3045	0.9534									yes	yes
2100612	CCBX715665	3045	0.9534									yes	yes
2100613	CCBX715665	3045	0.9534									yes	yes
2100614	CCBX715665	3045	0.9534									yes	yes
2100615	CCBX715665	3045	0.9534	0.380	316	2.37	110					yes	yes
2100616	CCBX715665	3045	0.9534									yes	yes
2100617	CCBX715665	3045	0.9534									yes	yes
2100618	CCBX715665	3045	0.9534									yes	yes
2100619	CCBX715665	3045	0.9534									yes	yes
2100620	CCBX715665	3045	0.9534									yes	yes
2100621	CCBX715665	3045	0.9534									yes	yes
2100622	CCBX715665	3045	0.9534						329	313		yes	yes
2100623	CCBX715665	3045	0.9534									yes	yes
2100624	CCBX715665	3045	0.9534									yes	yes
2100625	CCBX715665	3045	0.9534									yes	yes
2100626	CCBX715665	3045	0.9534									yes	yes
2100627	CCBX715665	3045	0.9534									yes	yes
2100628	CCBX715665	3045	0.9534									yes	yes
2100629	CCBX715665	3045	0.9534									yes	yes
2100630	CCBX715665	3045	0.9534	0.387	322	2.61	115	9.84E-03				yes	yes
2100631	CCBX715665	3045	0.9534									yes	yes
2100632	CCBX715665	3045	0.9534									yes	yes
2100633	CCBX715665	3045	0.9534									yes	yes
2100634	CCBX715665	3045	0.9534									yes	yes
2100635	CCBX715665	3045	0.9534									yes	yes
2100636	CCBX715665	3045	0.9534									yes	yes
2100637	CCBX715665	3045	0.9534									yes	yes
2100638	CCBX715665	3045	0.9534									yes	yes
2100639	CCBX715665	3045	0.9534									yes	yes
2100640	CCBX715665	3045	0.9534									yes	yes
2100641	CCBX715665	3045	0.9534									yes	yes
2100642	CCBX715665	3045	0.9534									yes	yes
2100643	CCBX715665	3045	0.9534									yes	yes
2100644	CCBX715665	3045	0.9534									yes	yes

Appendix I-1
Geonet Log
White Mesa Mill, Cell 4A
Blanding, UT

			Manufacturer Quality Control Testing						CQA			Acceptance	
Geonet	Resin	Roll Area	Geonet	Mass/Unit	Thickness	Carbon	Tensile Strength	Hydraulic	Average	Minimum	Hydraulic	MQA	CQA
Roll No.	Batch	(SF)	Density	Area		Black	(MD)	Transmissivity	Thickness	Thickness	Transmissivity		
	No.		(gm/cc)	(lb/ft2)	(mils)	(%)	(lb/in)	(m^2/s)			(m^2/s)		
			0.94		300 mils	2.0-3.0		(Min) 8E-03	300 mils		(Min) 8E-03		
			1/100,000		1/100,000	1/100,000		no min	1/200,000	1/200,000	1/200,000		
2100645	CCBX715665	3045	0.9534	0.378	319	2.45	109					yes	yes
2100646	CCBX715665	3045	0.9534									yes	yes
2100647	CCBX715665	3045	0.9534									yes	yes
2100648	CCBX715665	3045	0.9534									yes	yes
2100649	CCBX715665	3045	0.9534									yes	yes
2100650	CCBX715665	3045	0.9534									yes	yes
2100651	CCBX715665	3045	0.9534									yes	yes
2100652	CCBX715665	3045	0.9534									yes	yes
2100653	CCBX715665	3045	0.9534									yes	yes
2100654	CCBX715665	3045	0.9534									yes	yes
2100655	CCBX715665	3045	0.9534									yes	yes
2100656	CCBX715665	3045	0.9534									yes	yes
2100657	CCBX715665	3045	0.9534									yes	yes
2100658	CCBX715665	3045	0.9534									yes	yes
2100659	CCBX715665	3045	0.9534									yes	yes
2100660	CCBX72469	3045	0.9552	0.389	325	2.65	114	9.95E-03				yes	yes
2100661	CCBX72469	3045	0.9552									yes	yes
2100662	CCBX72469	3045	0.9552									yes	yes
2100663	CCBX72469	3045	0.9552									yes	yes
2100664	CCBX72469	3045	0.9552									yes	yes
2100665	CCBX72469	3045	0.9552									yes	yes
2100666	CCBX72469	3045	0.9552									yes	yes
2100667	CCBX72469	3045	0.9552						322	314	1.09E-02	yes	yes
2100668	CCBX72469	3045	0.9552									yes	yes
2100669	CCBX72469	3045	0.9552									yes	yes
2100670	CCBX72469	3045	0.9552									yes	yes
2100671	CCBX72469	3045	0.9552									yes	yes
2100672	CCBX72469	3045	0.9552									yes	yes
2100673	CCBX72469	3045	0.9552									yes	yes
2100674	CCBX72469	3045	0.9552									yes	yes
2100675	CCBX72469	3045	0.9552	0.376	321	2.35	112					yes	yes
27971001	EQUX621168	3045	0.9547	0.350	314	2.54	111	9.13E-03	346	331	1.26E-02	yes	yes
27971002	EQUX621168	3045	0.9547									yes	yes
27971003	EQUX621168	3045	0.9547									yes	yes
27971004	EQUX621168	3045	0.9547									yes	yes
27971005	EQUX621168	3045	0.9547									yes	yes

APPENDIX I-2

CQA CONFORMANCE TEST RESULTS

October 16, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2274-05-10
Material(s) Tested:	2 Skaps TN330 Geonet(s)
Test(s) Requested:	Transmissivity (ASTM D 4716) Thickness (ASTM D 5199)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen

Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

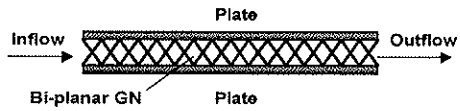
GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100004
TRI Log #: E2274-05-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Hydraulic Transmissivity (ASTM D 4716)												
Normal Load (psf):	7,000											
Hydraulic Gradient:	0.1											
Test Length (in)	12											
Test Width (in)	12											
Plate / Sample / Plate												
Seat Time (hours)	Specimen		1									
Volume (cc)		1687	1669	1676								
Time (s)		5.03	5.03	5.03								
1 Flow Rate (GPM/ft width)		5.32	5.26	5.28							5.29	0.03
Transmissivity (m^2/s)		1.10E-02	1.09E-02	1.09E-02							1.09E-02	5.92E-05
Test Temp (C)			20.0									
Temp. Corr. Factor			1.000									
Thickness (ASTM D 5199)												
Thickness (mils)	320	333	339	321	324	318	331	326	316	323	325	7
											316	<< min



The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction: of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100082
TRI Log #: E2274-05-10

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	326	336	324	334	318	337	341	318	331	334	330	8
											318	<< min

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction: of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

October 23, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2274-19-06
Material(s) Tested:	2 Skaps TN330 Geonet(s)
Test(s) Requested:	Transmissivity (ASTM D 4716) Thickness (ASTM D 5199)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100162
TRI Log #: E2274-19-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Hydraulic Transmissivity (ASTM D 4716)												
Normal Load (psf):	7,000											
Hydraulic Gradient:	0.1											
Test Length (in)	12											
Test Width (in)	12											

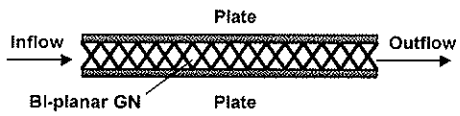


Plate / Sample / Plate

Seat Time (hours)		Specimen	1									
	Volume (cc)		1569	1555	1619							
	Time (s)		5.03	5.03	5.25							
1	Flow Rate (GPM/ft width)		4.94	4.90	4.89						4.91	0.03
	Transmissivity (m^2/s)		1.05E-02	1.04E-02	1.04E-02						1.04E-02	6.28E-05
	Test Temp (C)			19.0								
	Temp. Corr. Factor			1.025								

Thickness (ASTM D 5199)												
Thickness (mils)	328	324	313	306	322	307	311	308	312	308	314	8
											306	<< min

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction: of this report, except in full, without prior approval of TRI.

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9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100216
TRI Log #: E2274-19-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	319	328	314	323	315	322	331	321	321	314	321 314	6 << min

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction: of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

November 7, 2006

Mail To:	**Bill To:**
Mr. Gregory T. Corcoran, P.E. **Geosyntec Consultants** 10875 Rancho Bernardo Road, Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2274-32-01
Material(s) Tested:	1 Skaps TN330 Geonet(s)
Test(s) Requested:	Transmissivity (ASTM D 4716) Thickness (ASTM D 5199)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Jarrett A. Nelson

Jarrett A. Nelson
Special Projects Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

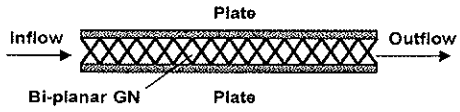
GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100296
TRI Log #: E2274-32-01

PARAMETER	TEST REPLICATE NUMBER 1	2	3	4	5	6	7	8	9	10	MEAN	STD. DEV.
Hydraulic Transmissivity (ASTM D 4716)												
Normal Load (psf):	7,000											
Hydraulic Gradient:	0.1											
Test Length (in)	12											
Test Width (in)	12											
Plate / Sample / Plate												
Seat Time (hours)	Specimen		1									
Volume (cc)		1461	1490	1447								
Time (s)		4.84	4.96	4.87								
1 Flow Rate (GPM/ft width)		4.79	4.76	4.71							4.75	0.04
Transmissivity (m^2/s)		9.90E-03	9.86E-03	9.75E-03							9.84E-03	7.96E-05
Test Temp (C)			20.0									
Temp. Corr. Factor			1.000									
Thickness (ASTM D 5199)												
Thickness (mils)	320	304	313	327	321	315	312	326	318	319	318	7
											304	<< min



The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction: of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

TRI / Environmental, Inc.
A Texas Research International Company

November 13, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2274-45-01
Material(s) Tested:	1 Skaps TN330 Geonet(s)
Test(s) Requested:	Transmissivity (ASTM D 4716) Thickness (ASTM D 5199)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen

Sam Allen
Vice President
Geosynthetic Services Division
www.GeosyntheticTesting.com

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100363
TRI Log #: E2274-45-01

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Thickness (ASTM D 5199)												
Thickness (mils)	322	326	314	325	321	322	322	314	324	326	322	4
											314	<< min

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

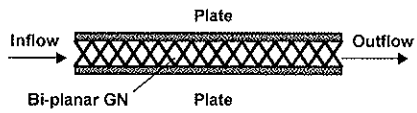
GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100432
TRI Log #: E2274-45-01

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Hydraulic Transmissivity (ASTM D 4716)												
Normal Load (psf):	7,000											
Hydraulic Gradient:	0.1											
Test Length (in)	12											
Test Width (in)	12											
Plate / Sample / Plate												
Seat Time (hours)	Specimen		1									
Volume (cc)		1574	1569	1596								
Time (s)		4.75	4.81	4.90								
1 Flow Rate (GPM/ft width)		5.25	5.17	5.16							5.20	0.05
Transmissivity (m^2/s)		1.06E-02	1.04E-02	1.04E-02							1.05E-02	1.00E-04
Test Temp (C)			21.0									
Temp. Corr. Factor			0.976									
Thickness (ASTM D 5199)												
Thickness (mils)	330	314	326	325	327	316	328	334	322	317	324	7
											314	<< min



The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

December 18, 2006

Mail To:	**Bill To:**
Mr. Gregory T. Corcoran, P.E. **Geosyntec Consultants** 10875 Rancho Bernardo Road, Suite 200 San Diego, CA 92127 email: gcorcoran@geosyntec.com	**<= Same**

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2274-81-02
Material(s) Tested:	3 Skaps TN330 Geonet(s)
Test(s) Requested:	Transmissivity (ASTM D 4716) Thickness (ASTM D 5199)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen

Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

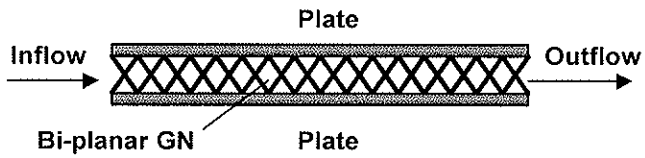
GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100553
TRI Log #: E2274-81-02

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Hydraulic Transmissivity (ASTM D 4716)												
Normal Load (psf):	7,000											
Hydraulic Gradient:	0.1											
Test Length (in)	12											
Test Width (in)	12											
Plate / Sample / Plate												
Seat Time (hours)	Specimen		1									
Volume (cc)		1744	1766	1776								
Time (s)		4.90	4.93	4.93								
1 Flow Rate (GPM/ft width)		5.64	5.68	5.71							5.68	0.03
1 Transmissivity (m^2/s)		1.17E-02	1.18E-02	1.18E-02							1.17E-02	7.10E-05
Test Temp (C)			20.0									
Temp. Corr. Factor			1.000									
Thickness (ASTM D 5199)												
Thickness (mils)	339	332	323	331	331	338	326	316	313	323	327	9
											313	<< min



The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Thickness (ASTM D 5199)
TRI Log #: E2274-81-02

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Sample Identification: 2100500												
Thickness (mils)	331	331	319	333	319	330	337	316	320	334	327 316	8 << min
Sample Identification: 2100622												
Thickness (mils)	342	332	320	338	343	334	313	321	328	315	329 313	11 << min

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction: of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

December 29, 2006

Mail To:

Mr. Gregory T. Corcoran, P.E.
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**IUC White Mesa Mill Cell 4A**
TRI Job Reference Number:	E2274-84-06
Material(s) Tested:	1 Skaps TN330 Geonet(s)
Test(s) Requested:	Transmissivity (ASTM D 4716) Thickness (ASTM D 5199)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Sam R. Allen

Sam R. Allen
Vice President and Division Manager
Geosynthetic Services Division
www.GeosyntheticTesting.com

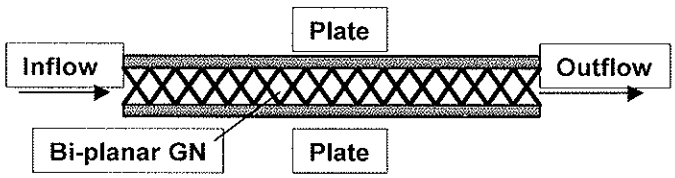
GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: IUC White Mesa Mill Cell 4A

Material: Skaps TN330 Geonet
Sample Identification: 2100667
TRI Log #: E2274-84-06

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.
	1	2	3	4	5	6	7	8	9	10		
Hydraulic Transmissivity (ASTM D 4716)												
Normal Load (psf):	7,000											
Hydraulic Gradient:	0.1											
Test Length (in)	12											
Test Width (in)	12											
Plate / Sample / Plate												
Seat Time (hours)	Specimen		1									
Volume (cc)		1042	1082	1050								
Time (s)		3.09	3.21	3.11								
1 Flow Rate (GPM/ft width)		5.35	5.34	5.35							5.35	0.00
1 Transmissivity (m^2/s)		1.09E-02	1.09E-02	1.09E-02							1.09E-02	9.22E-06
Test Temp (C)			20.5									
Temp. Corr. Factor			0.988									
Thickness (ASTM D 5199)												
Thickness (mils)	322	325	314	323	328	322	314	331	319	325	322	5
											314	<< min



The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction: of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

May 28, 2008

Mail To:

Mr. Greg Corcoran
Geosyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127

email: gcorcoran@geosyntec.com
cc email: jpryor@comanco.com
cc email: cfore@comanco.com

Bill To:

<= Same

Dear Mr. Corcoran:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

Project:	**White Mesa Mill, Denison Mines, Blanding, UT**
TRI Job Reference Number:	E2310-88-09
Material(s) Tested:	1 SKAPS TN330 Geonet(s)
Test(s) Requested:	Transmissivity (ASTM D 4716) Thickness (ASTM D 5199)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

MPatel

Dr. Mansukh Patel
Sr. Laboratory Coordinator
Geosynthetic Services Division
www.GeosyntheticTesting.com

cc: Sam R. Allen, Vice President and Division Manager

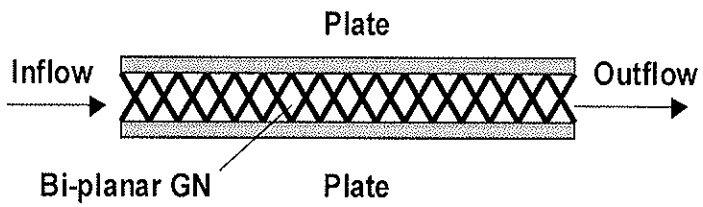
GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

GEONET TEST RESULTS

TRI Client: Geosyntec Consultants
Project: White Mesa Mill, Denison Mines, Blanding, UT

Material: SKAPS TN330 Geonet
Sample Identification: 279710001
TRI Log #: E2310-88-09

PARAMETER		TEST REPLICATE NUMBER										MEAN	STD. DEV.
		1	2	3	4	5	6	7	8	9	10		
Hydraulic Transmissivity (ASTM D 4716)													
Direction Tested: Machine Direction													
Normal Load (psf):	7,000												
Hydraulic Gradient:	0.1												
Test Length (in)	12												
Test Width (in)	12												
Plate / Sample / Plate	Bi-planar GN												
Seat Time (hours)	Specimen			1									
	Volume (cc)			1958	1984	2002							
	Time (s)			5.09	5.15	5.25							
1	Flow Rate (GPM/ft width)			6.10	6.11	6.04						6.08	0.03
	Transmissivity (m^2/s)			1.26E-02	1.26E-02	1.25E-02						1.26E-02	6.93E-05
	Test Temp (C)				20.0								
	Temp. Corr. Factor				1.000								
Thickness (ASTM D 5199)													
Thickness (mils)		336	340	331	348	352	339	357	334	360	358	346	11
												331	<< min



The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

GeosyntheticTesting.com
9063 Bee Caves Road / Austin, TX 78733 / 512 263 2101 / fax: 512 263 2558

APPENDIX J

CONCRETE SPILLWAY

APPENDIX J-1

DELIVERY TICKETS

38972

HOLLIDAY CONSTRUCTION, INC.

Box 502
Blanding, Utah 84511
(435) 678-2028 – Office
(435) 678-2929 – Residence

Date June 17, 2008 Operator James M.

Company Tri Hurst Location White Mesa Mill

Line No. _____ Hrs. Traveling _____

Machine No. 11 Hrs. Operating _____

Vehicle Mixer Truck TOTAL Hours _____

Gas _____

Diesel _____

Oil _____

Remarks 10 yds. of Concrete
5½ bag mix

Batch Time 8:50 A.M.
Batcher - Tate Holliday

Authorized By _____

38974

HOLLIDAY CONSTRUCTION, INC.

Box 502
Blanding, Utah 84511
(435) 678-2028 – Office
(435) 678-2929 – Residence

Date June 17, 2008 Operator Ned P.

Company Tri Hurst Location White Mesa Mill

Line No. _____ Hrs. Traveling _____

Machine No. 9 Hrs. Operating _____

Vehicle Mixer Truck TOTAL Hours _____

Gas _____

Diesel _____

Oil _____

Remarks 10 yds. of Concrete
5½ bag mix

Batch Time 9:35 AM.
Batcher - Tate Holliday

Authorized By _____

38975

HOLLIDAY CONSTRUCTION, INC.

Box 502
Blanding, Utah 84511
(435) 678-2028 – Office
(435) 678-2929 – Residence

Date June 17, 2008 Operator Cole H.

Company Tri Hurst Location White Mesa Mill

Line No. _____ Hrs. Traveling _____

Machine No. 13 Hrs. Operating _____

Vehicle Mixer Truck TOTAL Hours _____

Gas _____

Diesel _____

Oil _____

Remarks 10 yds. of Concrete
5½ bag Mix

Batch Time 10:35
Batcher - Tate Holliday

Authorized By _____

38977

HOLLIDAY CONSTRUCTION, INC.

Box 502
Blanding, Utah 84511
(435) 678-2028 – Office
(435) 678-2929 – Residence

Date June 17, 2008 Operator James M.

Company Tri Hurst Location White mesa Mill

Line No. _____ Hrs. Traveling _____

Machine No. 11 Hrs. Operating _____

Vehicle Mixer Truck TOTAL Hours _____

Gas _____

Diesel _____

Oil _____

Remarks 10 yds. of Concrete
5½ bag mix

Batch Time 11:10 AM.
Batcher - Tate Holliday

Authorized By _____

38979

HOLLIDAY CONSTRUCTION, INC.

Box 502
Blanding, Utah 84511
(435) 678-2028 – Office
(435) 678-2929 – Residence

Date June 17, 2008 Operator Ned P

Company Tri Hirst Location White Mesa Mill

Line No. _____ Hrs. Traveling _____

Machine No. 9 Hrs. Operating _____

Vehicle Mixer Truck TOTAL Hours _____

Gas _____

Diesel _____

Oil _____

Remarks 10 yds. of concrete
5½ bag mix

batch time 12:55 P.M.
Batcher - Tate H.

Authorized By _____

38980

HOLLIDAY CONSTRUCTION, INC.

Box 502
Blanding, Utah 84511
(435) 678-2028 – Office
(435) 678-2929 – Residence

Date June 17, 2008 Operator Cole H.

Company Tri Hurst Location White Mesa Mill

Line No. _____ Hrs. Traveling _____

Machine No. 13 Hrs. Operating _____

Vehicle Mixer Truck TOTAL Hours _____

Gas _____

Diesel _____

Oil _____

Remarks 10 yds. of Concrete
5½ bag Mix

Batch time 1:15 P.M.
Batcher - Tate H.

Authorized By _____

APPENDIX J-2

LABORATORY TEST RESULTS

Moab Testing Services — Concrete Testing

785 Mccormick Moab, Utah (435)259-8104
(435)260-9082
(435)260-8421

Compressive Strenght of Concrete Cylinders

Client:	Geosyntec Consultants	Job# Concrete	
Project:	Denison Mines	Date# 6/17/2008	

Job Name / Cylinder Labeled	Cast Date	Break Date	**Age (days)**	Diameter (inch)	Height (inch)	Max Load	**Psi**
Cell 4A Spillway N. West Corner	17-Jun	24-Jun	**7**	4	8	44,380	**3,535**
	17-Jun	1-Jul	**14**	4	8		
	17-Jun	7/8/2008	**28**	4	8		
	17-Jun	8-Jul	**28**	4	8		

APPENDIX K

CONSTRUCTION RECORD DRAWINGS

APPENDIX L

WARRANTIES

PRO RATA LIMITED MATERIAL WARRANTY
FOR GSE LINING TECHNOLOGY, INC.
Geomembrane Products
(U.S.A.)

Date:	6/24/2008.	Warranty No.:	**520724**
Purchaser Name:	Comanco Environmental Corp	Project No.:	520724
Address:	4301 Sterling Commerce Drive	Effective Date:	6/24/2008
City, State:	Plant City, FL 33566	Project Name:	Denison Mines-White Mesa Cell
		Project Address:	1050 17th Street, Suite 950, Denver, CO 80265
Product Type/Description:	GSE HD geomembrane		

GSE Lining Technology, Inc. ("GSE") warrants each GSE product described above to be free from material manufacturing defects (as described by the contract's material specifications) and to be able to withstand normal weathering for a period of **twenty (20) years** from the date of sale. This limited warranty does not include damages or defects in the GSE product resulting from acts of God, casualty or catastrophe, including but not limited to: earthquakes, floods, piercing hail, tornadoes or force majeure. The term "normal use" does not include, among other things, the exposure of GSE's product to harmful chemicals, abuse by machinery, equipment or people; improper site preparation or placement of cover materials; excessive pressures or stresses from any source. This warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson-Moss Warranty Act.

Should defects or premature loss of use within the scope of this warranty occur, GSE will, at its option, repair or replace the GSE product on a pro rata basis at the current price in such manner as to charge the Purchaser only for that portion of the warranted life which has elapsed since the purchase of the product. GSE shall have the right to inspect and determine the cause of the alleged defect in the product and to take appropriate steps to repair or replace the product if a defect exists that is covered under this warranty.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail or courier, to GSE Lining Technology Co., 19103 Gundle Road, Houston, TX 77073, with the words "Warranty Claim" clearly marked on the face of the envelope, within ten (10) days of Purchaser becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have rights under this warranty. GSE shall not be obligated to perform any inspection or obligated to perform any repair or replacement under this warranty until the area is made available free from all obstructions, water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this warranty, Purchaser shall reimburse GSE for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the product as GSE determines to have violated the warranty provided herein. GSE shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to: damages for loss of production, lost profits, personal injury or property damage. GSE shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser to GSE's product, unless GSE specifically authorized, in writing, said repairs, replacements, modifications or alterations in advance. GSE liability under this warranty shall in no event exceed the replacement cost of the product sold to the Purchaser for the particular installation in which it failed.

GSE neither assumes nor authorizes any person other than an officer of GSE to assume for it any other or additional liability in connection with the GSE product made on the basis of the Limited Warranty. GSE MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN HEREIN AND HEREBY DISCLAIMS ALL WARRANTIES, INCLUDING BOTH EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, AND BY ACCEPTING DELIVERY OF THE PRODUCT, PURCHASER WAIVES ALL OTHER POSSIBLE WARRANTIES. GSE's WARRANTY BECOMES AN OBLIGATION OF GSE TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT.

This warranty is extended to the Purchaser and is non-transferable and non-assignable, i.e. there are no third-party beneficiaries to this warranty.

COMANCO®
ENVIRONMENTAL CORPORATION

LIMITED WARRANTY

PROJECT: White Mesa – Cell 4A
LOCATION: Blanding Utah
DESCRIPTION: **HDPE LINER SYSTEM**

OWNER: Denison Mines Corp.
CONTRACT AMOUNT: $323,000.00
COMPLETION DATE: June 24, 2008

COMANCO ENVIRONMENTAL CORPORATION ("COMANCO"), subject to the terms and conditions set forth below, warrants the above referenced installation shall be installed free from defects in workmanship for a period of one (1) year from the date the installation is completed. This LIMITED WARRANTY extends only to the proper installation of the lining system and does not include damages or defects in the installation caused by entities other than COMANCO, or resulting from Acts of God, or casualty, or catastrophe, including but not limited to, earthquakes, fire, floods, hail, tornados, hurricanes, tropical storms, gale force winds, other events of force majeure or vandalism. Further, this LIMITED WARRANTY does not include damages or defects in the installation resulting from exposure to harmful chemicals, abuse by machinery, equipment or people, excessive pressures or stresses from any source, subsurface or overburdened soil conditions, total or differential soil settlements, or any other cause not within COMANCO's control.

The extent of COMANCO's liability for breach of this LIMITED WARRANTY shall be limited to repairing or replacing the defective installation workmanship that will result in providing the OWNER with the pro-rated performance remaining under the original period of this LIMITED WARRANTY. COMANCO shall have the right to inspect and determine the cause of any alleged defect in the installation and to take appropriate steps to repair or replace the installation workmanship if a defect exists and is within the terms of this LIMITED WARRANTY.

This LIMITED WARRANTY will not be effective unless COMANCO receives written notice, by certified mail, to the PRESIDENT of COMANCO within ninety (90) days after the alleged defect is first discovered, or should have been discovered by the OWNER. Should the required notice not be given, the defect and all warranties shall be deemed to have been waived by OWNER, and OWNER shall have no right of recovery against COMANCO. In the event repairs or replacement are to be effected, said repairs and/or replacements shall not become due until the area subject to repair or replacement is made available to COMANCO in a clean, dry and unencumbered condition. This includes, but is not limited to, the repair or replacement area being free from all water, dirt, sludge, waste, residuals, liquids, or overlying material of any kind. In no event will COMANCO be liable for any costs expended by any person or entity other than COMANCO on any defective work with respect to the installation. Any repairs, replacements or alterations, which affect COMANCO's original installation work, will VOID this LIMITED WARRANTY.

Notwithstanding anything herein to the contrary, COMANCO's liability under this LIMITED WARRANTY shall in no event exceed the Contract Amount above state. Further, under no circumstances shall COMANCO be liable for any special, direct, indirect or consequential damages arising from loss of production or product, or any other losses, including losses due to personal injuries and product liability owing to the failure of the material or installation. OWNER shall be deemed to have waived its rights under this LIMITED WARRANTY with respect to any repairs, replacements or alterations made by OWNER without the express written consent of COMANCO.

COMANCO neither assumes nor authorizes any person other than an officer of COMANCO to assume for it any other or additional liability in connection with the installation. This LIMITED WARRANTY is extended to the property OWNER only. No rights against COMANCO will survive an attempted transfer or assignment to any party who does not own the property.

The LIMITED WARRANTY herein is given in lieu of all warranties of merchantability, fitness for purpose, or other warranties or representatives, expressed or implied. By accepting the installation, OWNER waives all other such possible warranties or representations, except those specifically given herein. Correction of nonconformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of COMANCO to OWNER, whether based on contract, negligence, strict liability or otherwise with respect to or arising out of the installation of the lining system. The parties hereto expressly agree that the sale hereunder is for commercial or industrial use only. Warranties, if any, concerning the materials incorporated into the lining system are covered, if at all, by separate warranties from the manufacturers or suppliers of such materials and are expressly excluded from the scope of this LIMITED WARRANTY, and OWNER acknowledges and agrees that COMANCO has made no warranties or representations to it concerning either the availability or sufficiency of any such warranties or representations from manufacturers or suppliers.

Except as expressly stated above, COMANCO makes no warranty of any kind and hereby disclaims all warranties with respect to the installation of the lining system, both expressed and implied, including, but not limited to, implied warranties or merchantability and fitness for a particular purpose.

No terms or conditions other than those stated herein and no agreement or understanding, oral or written, and no course of conduct or performance in any way purporting to modify this LIMITED WARRANTY or to waive COMANCO's rights hereunder shall be binding on COMANCO unless the same shall be clearly described in writing that refers to this LIMITED WARRANTY and is signed by an officer of COMANCO. Additional liabilities created by other documents shall have no force or effect upon this LIMITED WARRANTY or the installation performed by COMANCO. The laws of the STATE OF FLORIDA will govern the rights and duties of the parties under this LIMITED WARRANTY.

COMANCO ENVIRONMENTAL CORPORATION:

BY: **T. R. JOHNSON** TITLE: CHIEF EXECUTIVE OFFICER

SIGNED: T.R.J. DATED: 6/25/2008