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**RECEIVED**

MAR 10 2008

UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE  
08.00958

March 7, 2008

Dennis Downs  
Department of Environmental Quality  
Division of Solid and Hazardous Waste  
288 North 1460 West  
Salt Lake City, UT 84114-4880

Dear Mr. Downs:

Waste Management Special Service District #5 is submitting our Class IV b Permit for renewal.

Please review the information and send any requests for additional information to Landfill Manager David Vetsch.

Sincerely,

David Vetsch  
Landfill Manager

**RECEIVED**

**MAR 10 2008**

**UTAH DIVISION OF  
SOLID & HAZARDOUS WASTE**

*00.00958*

**REPERMIT APPLICATION TO  
OPERATE A CLASS IVb LANDFILL**

**Beaver County SSD #5 Bulky Waste / West Class IVb Landfill  
(Milford)**

Submitted by:

Prepared by

**IGES, INC.**

4153 S. Commerce Drive  
Salt Lake City, Utah 84107

**February 25, 2008**

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	<b>Introduction</b> Includes summary of permit with technical and operational issues highlighted
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<b>II.</b>	<b>General Report</b> Includes information required by Utah Administrative Rule R315-305
<b>III.</b>	<b>Technical Report</b> Includes information required by Utah Administrative Rule R315-305
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	APPENDIX B – Legal Description and Proof of Ownership
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## **INTRODUCTION**

This document presents an application to repermit and operate a Class IVb near Milford, on land owned and operated by Beaver County Special Service District #5. The existing class IVb landfill (Beaver County SSD #5 Bulky Waste/West Class IVb Landfill) is located approximately eight miles south of Milford on Imperial Road. The Beaver County SSD #5 Bulky Waste/West Class IVb Landfill is currently operated under permit number 9415 issued by the Utah Solid and Hazardous Waste Control Board.

The area to be permitted is in Section 21, Township 29 South, Range 10 West, Salt Lake Baseline and Meridian, Beaver County, Utah. Drawing 1 (Appendix A) shows the location of the landfill.

Part I of this document duplicates the standard form outlining General Information pertaining to the site. Part II is a General Report that includes a facility description and landfill operations plan. Part III is the Technical Report and includes details on the design of the site closure, post-closure care and financial assurance.

**REPERMIT APPLICATION TO  
OPERATE A CLASS IVb LANDFILL**

**Beaver County SSD #5 Bulky Waste / West Class IVb Landfill  
(Milford)**

**PART I – GENERAL INFORMATION**

03/11/08 12:04 FAX 801 538 6715

Div of Sol Has Waste

002

## Utah Class IV and VI Landfill Permit Application Form

<input type="checkbox"/> Class IVa <input type="checkbox"/> Class VI		<input checked="" type="checkbox"/> Class IVb		<input type="checkbox"/> New Application <input checked="" type="checkbox"/> Renewal Application		<input type="checkbox"/> Facility Expansion <input type="checkbox"/> Modification	
For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number						9415	
Legal Name of Facility Beaver County SSD #5 Bulky Waste/West Class IVb Landfill							
Site Address (street or directions to site)						County	
Eight miles south of Milford on Imperial Road						Beaver	
City Milford		State UT		Zip Code 84751-0278		Telephone (435) 386-2530	
Township 29 S	Range 10 W	Section(s) 21		Quarter/Quarter Section SW		Quarter Section	
Main Gate Latitude degrees 38 minutes 16 seconds 9		Longitude degrees 112 minutes 59 seconds 13					
Facility Owner Information Legal Name of Facility Owner Beaver County Special Service District # 5							
Address (mailing) P.O. Box 278							
City Milford		State UT		Zip Code 84751-0278		Telephone (435) 386-2530	
Facility Operator Information Legal Name of Facility Operator Beaver County Special Service District # 5							
Address (mailing) P.O. Box 278							
City Milford		State UT		Zip Code 84751-0278		Telephone (435) 386-2530	
Property Owner Information Legal Name of Property Owner Beaver County Special Service District # 5							
Address (mailing) P.O. Box 278							
City Milford		State UT		Zip Code 84751-0278		Telephone (435) 386-2530	
Owner Contact Information Owner Contact David Vetsch Title Landfill Manager							
Address (mailing) P.O. Box 278							
City Milford		State UT		Zip Code 84751-0278		Telephone (435) 438-5744	
Email Address bcwaste@scinternet.net				Alternative Telephone (cell or other)		(435) 691-0721	
Operator Contact Information Operator Contact David Vetsch Title Landfill Manager							
Address (mailing) P.O. Box 278							
City Milford		State UT		Zip Code 84751-0278		Telephone (435) 438-5744	
Email Address bcwaste@scinternet.net				Alternative Telephone (cell or other)			
Property Owner Contact Information Property Owner Contact David Vetsch Title Landfill Manager							
Address (mailing) P.O. Box 278							
City Milford		State UT		Zip Code 84751-0278		Telephone (435) 438-5744	
Email Address bcwaste@scinternet.net				Alternative Telephone (cell or other)			

Utah Class IV and VI Landfill Permit Application Form

<input type="checkbox"/> Landfill will accept all wastes allowed in Class IV or VI landfill Or landfill will accept only the following wastes		<input checked="" type="checkbox"/> Facility Area	
Waste Type <input checked="" type="checkbox"/> Construction & Demolition <input checked="" type="checkbox"/> Tires <input checked="" type="checkbox"/> Yard Waste <input checked="" type="checkbox"/> Animals <input type="checkbox"/> Contaminated Soil <input type="checkbox"/> Other <u>Junk Cars</u>	Combined Disposal Unit <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Monofill Unit <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Facility Area..... <u>155</u> acres Disposal Area..... <u>30</u> acres Design Capacity Years..... <u>83</u> Cubic Yards..... <u>230000</u> Tons.....

Note: Disposal of dead animals must be approved by the Executive Secretary

<input checked="" type="checkbox"/> Fee and Application Documents				<input type="checkbox"/> Application Fee: Amount \$		Class VI Special Requirements	
<input checked="" type="checkbox"/> Facility Map or Maps <input type="checkbox"/> Ground Water Report	<input checked="" type="checkbox"/> Facility Legal Description <input checked="" type="checkbox"/> Closure Design	<input checked="" type="checkbox"/> Plan of Operation <input checked="" type="checkbox"/> Cost Estimates	<input checked="" type="checkbox"/> Waste Description <input checked="" type="checkbox"/> Financial Assurance	<input type="checkbox"/> Documents required by UCA 19-6-108(9) and (10)			

Signature of Authorized Owner Representative <u>Dean Egre</u> <u>DEAN EGRE</u> Name typed or printed			Title <u>Chairman</u>	Date <u>3-12-2008</u>
Signature of Authorized Land Owner Representative (if applicable)			Address <u>PO BOX 270 MILFORD, UT 84751</u>	Title Date
Name typed or printed			Address	Title Date
Signature of Authorized Operator Representative (if applicable)			Title	Date
Name typed or printed			Address	Title Date

**REPERMIT APPLICATION TO  
OPERATE A CLASS IV<sub>b</sub> LANDFILL**

**Beaver County Bulky Waste / West Landfill  
(Milford)**

**PART II - GENERAL REPORT**

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## **1.0 - FACILITY DESCRIPTION**

The Beaver County Bulky Waste / West Class IVb Landfill is located on land owned and operated by the Beaver County Special Service District #5 (BCSSD). The Beaver County Bulky Waste / West Landfill (Landfill) is located as indicated on Drawing 1 (Appendix A). The Landfill is utilized exclusively for the disposal of construction and demolition (C&D) related waste, yard waste, dead animals, and the collection of recyclable materials (primarily metal). The Landfill will function as a Class IVb landfill in that it may accept over 20 tons per day of C&D and yard waste while excluding all conditionally exempt small quantity generator hazardous waste. The Landfill is located eight miles south of Milford and five miles north of Minersville on Imperial Road. The topography surrounding the Landfill is defined by very gently sloping (east to west) ground. Due to the slight slope of the site, all potential site run-on is directed around the Landfill and flows to the Minersville valley.

The site is accessed via any of three County maintained all-weather roads. Access into the Landfill disposal area is via an improved and maintained dirt road. The facility is entirely fenced, with public access through the locking gate at the main entrance of the solid waste facility.

### **1.1 AREA SERVED**

The Landfill primarily serves the residents of western Beaver County in the vicinity of Minersville and Milford. The majority of the solid waste disposal within Beaver County takes place at the Class I Landfill west of Beaver.

### **1.2 WASTE TYPES**

Based upon the existing waste stream and estimates of future trends; approximately 54 tons per week of waste is expected to initially be delivered to the Landfill.

The waste diverted into the Landfill shall be limited to the following wastes:

- Yard Waste – brush, branches, clippings, leaves and grass.

- Construction Wastes – waste generated from construction and includes building materials used in construction. Construction related materials include packaging materials from products, waste lumber, wallboard, boxes from appliances, empty paint cans, empty caulking tubes, and empty sealer and adhesive cans. “EMPTY” means that no more than 10% of the product remains inside the container.
- Demolition Wastes – waste generated from the destruction or remodeling of buildings and houses. Demolition Wastes may include furnaces, pipes, ducting and water heaters. Furniture and other materials that are not part of the building structure must be removed before demolition.
- Untreated wood, including pallets and crates
- Asphalt from roads and other surfaces
- Dead animals
- Other inert wastes
- Appliances (stored for recycling)
- Car bodies (stored for recycling)

Wastes materials that are specifically prohibited from being incorporated into Class IVb landfills include the following:

- Household Wastes (Municipal Solid Waste)
- Contaminated Soils
- Friable asbestos
- Tanks of any kind
- Railroad ties and treated lumber
- Waste paints, solvents, sealers, or adhesives
- Metal not directly generated from construction or demolition activities
- Electronics of all kind
- Sludges and septage
- Batteries
- Medical waste

### **1.3 FACILITY HOURS**

The operating hours for the facility are 9:00 a.m. to 5:00 p.m. year round. The facility is open Tuesday thru Saturday with the following holidays being observed:

- New Years Day
- Human Rights Day
- Presidents Day
- Memorial Day
- July 4<sup>th</sup>
- Pioneers Day
- Labor Day
- Columbus Day
- Veterans Day
- Thanksgiving Day
- Christmas Day

The following facility information is posted at the gate:

- Landfill Owner
- Days of Landfill Operation
- Hours of Landfill Operation
- Instructional Signs (no scavenging, no hazardous materials, dump in designated areas, etc.)
- Emergency Telephone Numbers

### **1.4 LANDFILL EQUIPMENT**

The following equipment is on site and used in landfill operations:

- 963 Caterpillar Track Loader
- Equipment as needed from other County operations

## 1.5 LANDFILL PERSONNEL

The following briefly presents the responsibilities for all on-site landfill personnel at the Landfill:

**Landfill Manager** - The Landfill Manager is responsible for all matters relating to the Solid Waste program for Beaver County; including landfill operations, and all recycling functions. The Landfill Manager is responsible that the landfill operations meet all Department of Solid and Hazardous Waste (DSHW) permit requirements. The Landfill Manager conducts regular facility inspections and monitors all landfill activities. The Landfill Manager is responsible for all operational documentation including the annual reports to DSHW. The Supervisor is responsible for all persons on the site including visitors.

**Landfill Attendants** – The Landfill Attendants are responsible for all day-to-day activities at the landfill. These responsibilities include, waste acceptance and placement, traffic control, visual inspection of incoming waste, random waste screening operations, and general construction as is pertains to landfill operations. The Landfill Attendants may serve as either equipment operators and gate attendants.

## 2.0 - LEGAL DESCRIPTION

The Class IVb landfill is located on property currently owned by the Beaver County Special Service District #5 and consists of three parcels. The legal descriptions of the three parcels are as follows:

Parcel 1: The southwest quarter of the southeast quarter and the northwest quarter of the southwest quarter of Section 21, Township 29 South, Range 10 West, Salt Lake Base and Meridian.

Parcel 2: Beginning at the southeast corner of the southwest quarter of Section 21, Township 29 South, Range 10 West, Salt Lake Base and Meridian and running thence north 1,303 feet; thence north 56 degrees 57 minutes west 1,602 feet; thence south 2,170 feet; thence east 1,320 feet to the point of beginning.

Parcel 3: Beginning at the southwest corner of the northwest quarter of Section 21, Township 29 South, Range 10 West, Salt Lake Base and Meridian and running thence east 643 feet; thence north 1,605 feet; thence north 86 degrees 02 minutes west 578 feet; thence southerly 1,640 feet to the point of beginning.

A legal description (Warranty Deed) for the property is included in Appendix B. A copy of a tax notice from the Beaver County Assessor's office is also included as proof of ownership.

### 3.0 – OPERATIONS PLAN

The Operation Plan for the Landfill has been written to address the requirements of Utah State Solid Waste Regulations and describes the proposed operations of the Beaver County Bulky Waste / West Class IVb Landfill. A copy of this Operations Plan will be kept on file at the operator's office. The District offices are currently housed in the operator's office at the Landfill.

The general arrangement of the Landfill is as indicated on Drawing 2 (Appendix A). The following section details the operational specifics of the Landfill. Forms used to document the operations of the Landfill are included in Appendix C.

#### 3.1 SCHEDULE OF CONSTRUCTION

The facility has been under construction since December of 1993, and the first inert waste was accepted at the facility on December 28, 1993. A gravel access road has been constructed, the perimeter of the active facility is fenced, and both ends of the access road are gated. A landfill office building, piezometer, and culinary well were constructed in 1999.

The operational life of the landfill will be broken up into four phases. The actual length of time that a phase remains operational will depend on the waste stream; the most recent year end report shows just under 2,800 tons were received in 2007. The life of the landfill has been projected assuming that waste is placed at a density of 0.8 ton/yd<sup>3</sup>. Drawings 3-6 in Appendix A show graphical representation of the landfill development. The following table shows the excavation requirements, available airspace and expected closure year of the various phases.

Phase	Cut (yd <sup>3</sup> )	Airspace (yd <sup>3</sup> )	Projected Closure
I	22,704	26,274	2010
II	0	9,595	2014
III	34,991	54,534	2036
IV	47,500	88,549	2069

Phases I – II will be completed in the existing cell, soils for daily cover will be obtained from excavation for the Phase III lateral (eastward) expansion. Daily cover for Phase III filling operations will be obtained from the Phase IV excavation. More details of the projected landfill usage are provided in Part III, Section 2.3 *Capacity of Site in Volume and Tonnage*.

## **3.2 DESCRIPTION OF WASTE HANDLING PROCEDURES**

### **3.2.1 General**

The Landfill is open for public and private disposal. Signs are posted along the Landfill access road to clearly indicate (1) the types of wastes that are accepted at the facility; (2) the types of wastes not accepted at the site; and (3) the penalty for illegal disposal.

As mentioned in Section 1.2, the facility accepts construction and demolition waste, yard wastes, untreated wood, dead animals, and other inert wastes.

The facility will accept (for temporary storage) appliances, furniture, and car bodies for either recycling or transfer to the Beaver County Class I landfill. The waste storage and recycling areas (for temporary storage of appliances, furniture, and car bodies) are separated from the active and future Class IVb landfill pits by the perimeter gravel road.

The waste control program is designed to detect and deter attempts to dispose of hazardous, municipal solid waste or other unacceptable wastes at the Landfill. The program is designed to protect the health and safety of employees, customers, and the general public, as well as to protect against the contamination of the environment. The waste handling procedures are as follows:

- All vehicles delivering wastes to the site will be met near the gate by a Landfill Attendant. The Landfill Attendant will inquire as to the contents of each incoming load and enter the description of the vehicle and waste content into the Daily Log. The vehicle will be directed to either the general working face, recycling drop off area, dead animal pit, or rejected due to unacceptable materials.

- Any vehicle suspected of carrying unacceptable materials (liquid waste, sludges, or hazardous waste) will be prevented from entering the disposal areas unless the driver can provide evidence that the waste is acceptable for disposal at the site. BCSSD reserves the right to refuse service to any suspect load. Vehicles carrying unacceptable materials will be required to exit the site without discharging their loads.
- Loads will be regularly surveyed at the tipping area. If a discharged load contains inappropriate or unacceptable material, the discharger will be required to reload the material and remove it from the Landfill. If the discharger is not immediately identified, the area where the unacceptable material was discharged will be cordoned off. Unacceptable material will be moved to a designated area for identification and preparation for proper disposal.

No open burning or smoking is allowed near the work face. Occasional burning of tree branches will be conducted on landfill support areas away from the working face as the need arises. The burning of tree branches is expected to be infrequent and in limited quantities.

### **3.2.2 Waste Acceptance Records**

A daily record of all landfill transactions will be created and kept on file at the Landfill. Any or all transactions may be retrieved as necessary.

### **3.2.3 Waste Disposal**

The width of the working face will be restricted by the size of the disposal pits. The working cell will typically be a maximum of 50 feet wide by 50 feet long. Once an area of pit 50 feet by 50 feet is filled to the surface, the waste will be covered with at least six inches of soil. The geometry of the Landfill is such that the waste will be pushed upslope into place. The wastes will be dumped at the toe of the work face when possible and spread up the slope in one to two foot lifts, keeping the slope at a typical five to one (horizontal to vertical) configuration.

Work face dimensions will be kept narrow enough to minimize blowing litter and reduce the amount of soil needed for cover while allowing safe vehicular access. Typically the track loader is operated with the bucket facing uphill. Equipment operations across the slope are avoided to

minimize the potential of equipment tipping over. In addition to safety concerns, a toe of slope to crest of slope working orientation provides an increase in compaction, better visibility and more uniform waste distribution.

The wastes will be compacted by making three to five passes up and down the slope. Compaction reduces litter, differential settlement, and the quantities of cover soil needed. Compaction also extends the life of the site, reduces unit costs, and leaves fewer voids to help reduce vector problems. Care is taken that no holes are left in the compacted waste. Voids are filled with additional waste as they develop. Cover soils will be applied to all areas of the active cell at a minimum of every 30 days.

### **3.2.4 Special Wastes – Wastes Excluded from the Landfill**

#### ***3.2.4.1 Used Oil and Batteries***

Used Oil and Batteries are not accepted at the Landfill.

#### ***3.2.4.2 Appliances***

Appliances are accepted at the Landfill and stored separated for recycling. All appliances containing refrigerants are further segregated and the refrigerant is removed before the appliances are loaded into the metal bin for recycling. Used cars are accepted and stored at the facility then either recycled by a contract salvage company or transferred to the Beaver County Class I landfill for disposal. Used cars are accepted only after all fluids and tires are removed.

#### ***3.2.4.3 Tires***

The Landfill accepts small quantities of tires from the general public. Commercial haulers are prohibited from disposing of tires. A total of four passenger tires are accepted from the public with each load and are incorporated into the working face.

#### ***3.2.4.4 Dead Animals***

Dead animals are accepted at the Landfill and are placed in the dead animal pit. The dead animal pit is covered with six inches of soil every day that dead animals are received.

#### ***3.2.4.5 Asbestos Waste***

Asbestos waste is not accepted at the Landfill.

#### ***3.2.4.6 Furniture***

Furniture is accepted at the Landfill and stored on site in a roll-off bin. Once the roll-off bin is full, it is transported to the Class I landfill for disposal.

#### ***3.2.4.7 Grease By-Products***

Grease By-Product wastes are not accepted at the Landfill.

#### ***3.2.4.8 Sewer Sludge***

Sewer sludge of any nature (wet or dry) is not accepted at the Landfill.

### **3.3 WASTE INSPECTION**

#### **3.3.1 Landfill Spotting**

Learning to identify and exclude prohibited and hazardous waste from the Landfill is required to maintain the Class IVb classification and necessary for the safe operation of the Landfill. The Landfill Attendants are required to receive initial and periodic hazardous waste screening inspection training. Waste screening certificates of the training received are kept in the personnel files.

#### **3.3.2 Random Waste Screening**

Random inspections of incoming loads are conducted according to the schedule established by the Landfill Manager. If frequent violations are detected, additional random checks are scheduled at the discretion of the Landfill Manager.

If a suspicious or unknown waste is encountered, the Landfill Attendant proceeds with the waste screening as follows:

- The driver of the vehicle containing the suspect material is directed to the waste screening area.
- The suspect material is spread out with landfill equipment or hand tools and visually examined. Suspicious marking or materials, like the ones listed below, are investigated further:
  - Containers labeled hazardous
  - Material with unusual amounts of moisture
  - Biomedical (red bag) waste
  - Unidentified powders, smoke, or vapors
  - Liquids, sludges, pastes, or slurries
  - Asbestos or asbestos contaminated materials
  - Batteries
- The waste screening form (Appendix C) is completed.

The Landfill Manager is called if unstable wastes that cannot be handled safely or radioactive wastes are discovered or suspected.

### **3.3.3 Removal of Hazardous or Prohibited Waste**

Should hazardous or prohibited wastes be discovered during random waste screening or during tipping, the waste is removed from the Landfill as follows:

- The waste is loaded back on the hauler's vehicle. The hauler is then informed of the proper disposal options.
- If the hauler or generator is no longer on the premises and is known, they are asked to retrieve the waste and informed of the proper disposal options.
- The Landfill Manager arranges to have the waste transported to the proper disposal site and then bill the original hauler or generator.

A record of the removal of all hazardous or prohibited wastes will be kept in the site operational records.

### **3.3.4 Hazardous or Prohibited Waste Discovered After the Fact**

If hazardous or prohibited wastes are discovered at the Landfill after the hauler has left the premises, the following procedure will be used to remove them:

- Access to the area is restricted.
- The Landfill Manager is immediately notified.
- The Landfill Attendant removes the waste from the working face if it is safe to do so.
- The waste is isolated in a secure area of the Landfill and the area cordoned off.
- Local authorities are notified as appropriate.

The DSHW, the hauler (if known), and the generator (if known) will be notified within 24 hours of the discovery. The generator (if known) is responsible for the proper cleanup, transportation, and disposal of the waste.

## **3.4 FACILITY MONITORING AND INSPECTION**

### **3.4.1 Groundwater**

The Landfill is not required to monitor groundwater.

### **3.4.2 Surface Water**

Run-on diversion structures have been installed around the perimeter of the Landfill site during the initial construction. The diversion structures include both ditches and berms. Potential run-on waters will be diverted away from the working face of the Landfill.

In general, surface water that falls within the landfill excavation will naturally be routed into the bottom of the excavation. The potential run-on has been directed away from the Landfill.

Run-off from the final cover will be managed by a combination of berms and ditches once the landfill elevation extends above the existing site grade. The Drawings (Appendix A) illustrate the location of the run-off control structures.

BCSSD staff will inspect the drainage system monthly. Temporary repairs will be made as required to any observed deficiencies until permanent repairs can be scheduled. BCSSD or a licensed general contractor will repair drainage facilities as required.

### **3.4.3 Leachate Collection**

The Landfill is not required to collect or monitor leachate.

### **3.4.4 Landfill Gas**

The Landfill is not required to monitor landfill gas.

### **3.4.5 General Inspections**

Routine inspections are necessary to prevent malfunctions and deterioration, operator errors, and discharges that may cause or lead to release of wastes to the environment or a threat to human health. Landfill Attendants are responsible for conducting and recording routine inspections of the landfill facilities according to the following schedule:

- Landfill Attendants (when operating equipment) perform pre-operational inspections of all equipment daily. A post-operational inspection is performed at the end of each shift while equipment is cooling down.
- All equipment is on a regular maintenance schedule. A logbook is maintained on each piece of equipment and any repairs and comments concerning the inspection are contained in the log. Oil samples are pulled when each machine is serviced and results are recorded in the machine log.
- Facility inspections are completed on a quarterly basis. Any needed corrective action items are recorded and the Landfill Attendants complete needed repairs. If a problem is of an urgent nature, the problem is corrected immediately.

### **3.5 CONTINGENCY AND CORRECTIVE ACTION PLANS**

The Minersville Volunteer Fire Department will be contacted in all cases where hazardous materials are suspected to be involved. The following sections outline procedures to be followed in case of fire, explosion, run-on/run-off contamination, or suspected groundwater contamination.

#### **3.5.1 Fire**

The potential for fire is a concern in any landfill. The Landfill follows a waste handling procedure to minimize the potential for a landfill fire. If any load comes to the landfill on fire, the driver of the vehicle is directed to a pre-designated area away from the working face. The burning waste is unloaded, spread out, and immediately covered with sufficient amounts of soil to smother the fire. Once the burning waste cools and is deemed safe, the material will then be incorporated into the working face. Some loads coming to the landfill may be on fire but not detected until after being unloaded at the working face. If a load of waste that is on fire is unloaded at the working face, the load of waste is immediately removed from the working face, spread out, and covered with soil.

The Minersville Volunteer Fire department is called if it appears that landfill personnel and equipment cannot contain any fire at the landfill. The Minersville Volunteer Fire department is also called if a fire is burning below the landfill surface or is difficult to reach or isolate.

In case of fire, the Landfill Manager is notified immediately. A written report detailing the event is placed in the operating record within seven days, including any corrective action taken.

#### **3.5.2 Explosion**

If an explosion occurs or seems possible, all personnel and customers are accounted for and the Landfill is evacuated. Corrective action is immediately evaluated and implemented as soon as practicable.

The Landfill Manager is notified immediately and the Minersville Volunteer Fire department is called. The Executive Secretary is notified immediately.

### **3.5.3 Failure of Run-On/Run-Off Containment**

The purpose of the run-on/run-off control systems is to manage the stormwater falling in or near the Landfill. Where possible, water is diverted away from the Landfill by utilizing ditches and berms. These ditches are inspected on a regular basis and repaired as needed. All precipitation falling near the Landfill will flow around the perimeter towards the Minersville valley.

If a run-off ditch or berm fails, temporary berms or ditches will be constructed until a permanent run-off structure can be repaired. Any temporary berms or other structures are checked at least every 4 hours during the storm event until storm water flow has stopped. Permanent improvements or repairs are made as soon as practicable.

The Landfill Manager is notified immediately if a failure of the run-off systems is discovered. The event is fully documented in the operating record, including corrective action within 14 days.

### **3.5.4 Groundwater Contamination**

The Landfill has no ground water monitoring wells. If ground water contamination is ever suspected, studies to evaluate the potential contamination will be conducted and the existence and/or extent of contamination will be documented. This program may include the installation of ground water monitoring wells. A ground water monitoring program would be developed and corrective action taken as deemed necessary, with the approval of the Executive Secretary.

## **3.6 CONTINGENCY PLAN FOR ALTERNATIVE WASTE HANDLING**

The most probable reason for a disruption in the waste handling procedures at the Landfill will be weather related. The Landfill may close during periods of inclement weather such as high winds, heavy rain, snow, flooding, or any other weather-related condition that would make travel or operations dangerous. The Landfill may also close for other reasons like fire, natural disaster, etc. In general, the BCSSD staff minimizes the possibility of disruption of waste disposal services from an operational standpoint.

In case of equipment failure, replacement equipment will be mobilized from other County operations, or leased to continue operations while repairs are being made. If the Landfill is closed for any reason, all waste will be diverted to the Beaver County Class I landfill.

### **3.7 MAINTENANCE PLAN**

#### **3.7.1 Groundwater Monitoring System**

The Landfill is currently exempt from requirements for groundwater monitoring. As a result, no groundwater monitoring system is planned.

#### **3.7.2 Leachate Collection and Recovery System**

The Landfill is currently exempt from requirements for leachate collection. As a result, no leachate collection and recovery system is planned.

#### **3.7.3 Gas Monitoring System**

The Landfill is currently exempt from requirements for a landfill gas monitoring system. No gas collection system is planned.

### **3.8 DISEASE AND VECTOR CONTROL**

The vectors encountered at the Landfill are flies, birds, mosquitoes, rodents, skunks, and snakes. Due to the rural location of the landfill, stray house pets are occasionally encountered at the landfill. The program for controlling these vectors is as follows:

#### **3.8.1 Insects**

The elimination of breeding areas is essential in the control of insects. Landfill will minimize the breeding areas by covering the waste with soil at a minimum of every 30 days and maintaining surfaces to reduce ponded water.

### **3.8.2 Rodents**

Reducing potential food sources minimizes rodent populations at the landfill. Due to the nature of the landfill wastes, no significant numbers of mice or rats have been observed.

In the unlikely event of a significant increase in the number of rodents at the landfill, a professional exterminator will be contacted. The exterminator would then establish an appropriate protocol for pest control in accordance with all county, state and federal regulations.

### **3.8.3 Birds**

The Landfill has had minimal problems with birds. Good landfilling practices of waste compaction, daily covering of working faces, the minimization of ponded water, and the nature of the waste at the site has alleviated most of the bird problems. If the occasional need arises, the birds will be encouraged to leave by using cracker and whistler shells.

### **3.8.4 Household Pets**

Because of the Landfills location, some stray cats and dogs may wander onto Landfill property. When stray animals are encountered (and can be caught), they are turned over to the animal shelter. If the Landfill Technicians are unable to apprehend the animals, they are chased off the property.

### **3.8.5 Wildlife**

The Landfill has a variety of wildlife located on or near the landfill property. Wildlife includes deer, snakes, foxes, skunks, and coyotes. If problem skunks or snakes are encountered, they will be exterminated. If other site wildlife becomes a problem, the Landfill will coordinate with the Division of Wildlife Resources to provide methods and means to eliminate the problem.

In the event that any of these vectors become an unmanageable problem, the services of a professional exterminator will be employed.

### **3.8.6 Fugitive Dust**

The roads leading to the landfill are paved, however; access roads to the Landfill are improved dirt/gravel roads and will need occasional dust control measures. General landfill activities, site access by vehicles compounded by the occasional high wind may present a fugitive dust problem. If the dust problem elevates above the “minimum avoidable dust level”, the landfill applies water to problem areas.

### **3.8.7 Litter Control**

The nature of the wastes (no MSW) received at the Landfill is such that the waste is not typically windblown. However; due to the nature of landfilling operations, blowing litter will still be an occasional problem. Landfill personnel perform routine litter cleanup to keep the landfill and surrounding properties clear of windblown debris.

Whenever possible, the working face is placed down wind so that blowing litter is worked into the landfill face. During windy conditions, landfill personnel minimize the spreading of the waste to reduce the amount of windblown debris.

## **3.9 RECYCLING**

Currently, recycling activities are conducted in conjunction with the ongoing Landfill operations. Metals, junk cars, and appliances are accepted at the Landfill and are either recycled by a contract salvage company or disposed of at the Beaver County Class I landfill.

## **3.10 TRAINING PROGRAM**

As part of the initial training of new employees all personnel are required to review the approved permit annually.

All personnel associated with the operation of the landfill receive site specific training annually. Certificates of completion are kept in personnel files. Throughout the year regular safety and equipment maintenance training sessions are held to ensure that employees are aware of the latest technologies and that good safety practices are used at all times.

### **3.11 RECORDKEEPING**

An operating record is maintained as part of a permanent record on the following items:

- Number of vehicles entering the landfill and types of wastes received on a monthly basis.
- Deviations from the approved Operations Plan.
- Personnel training and notification procedures.
- Random load inspection log.

### **3.12 SUBMITTAL OF ANNUAL REPORT**

BCSSD will submit a copy of its annual report to the Executive Secretary by March 1 of each year for the most recent calendar or fiscal year of facility operation. The annual report will include facility activities during the previous year and will include, at a minimum, the following:

- Name and address of facility.
- Calendar or fiscal year covered by the annual report.
- Annual quantity, in tons or volume, in cubic yards, and estimated in-place density in pounds per cubic yard of solid waste.
- Annual update of required financial assurances mechanism pursuant to Utah Administrative Code.
- Training programs completed.

### **3.13 INSPECTIONS**

The Landfill Manager, or his/her designee, will inspect the facility to minimize malfunctions and deterioration, operator errors, and discharges that may cause or lead to the release of wastes to the environment or to a threat to human health. These inspections are conducted on a quarterly basis, at a minimum. An inspection log (Appendix C) is kept as part of the operating record. This log includes at least the date and time of inspection, the printed name and handwritten signature of the inspector, a notation of observations made, and the date and nature of any repairs or corrective actions. Inspection records are available to the Executive Secretary or an authorized representative upon request.

### **3.14 RECORDING WITH COUNTY RECORDER**

Plats and other data, as required by the County Recorder, will be recorded with the Beaver County Recorder as part of the record of title no later than 60 days after certification of closure.

### **3.15 STATE AND LOCAL REQUIREMENTS**

The Landfill will maintain compliance with all applicable state and local requirements including zoning, fire protection, water pollution prevention, air pollution prevention, and nuisance control.

### **3.16 SAFETY**

Landfill personnel are required to participate in an ongoing safety program. This program complies with the Occupational Safety and Health Administration (OSHA), and the National Institute of Occupational Safety and Health (NIOSH) regulations as applicable. This program is designed to make the site and equipment as secure as possible and to educate landfill personnel about safe work practices.

### **3.17 EMERGENCY PROCEDURES**

In the event of an accident or any other emergency situation, the Landfill Attendant immediately contacts the Landfill Manager and proceeds as directed. If the Landfill Manager is not available, the Landfill Attendant will call the appropriate emergency number posted by the telephone. The emergency telephone numbers are:

EMERGENCY .....	911
Dave Vetsch, Landfill Manager .....	(435) 438-5744
Minersville Volunteer Fire Department .....	(435) 386-2323
Sheriff's Department .....	(435) 387-2758
Highway Patrol .....	(435) 586-9445
Milford Valley Memorial Hospital.....	(435) 387-2411
Beaver County Health Department .....	(435) 438-2482
Executive Secretary, DSHW .....	(801) 538-6170

**REPERMIT APPLICATION TO  
OPERATE A CLASS IV<sub>b</sub> LANDFILL**

**Beaver County Bulky Waste / West Landfill  
(Milford)**

**PART III - TECHNICAL REPORT**

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## **1.0 – ENGINEERING REPORT**

### **1.1 CELL DESIGN**

The Beaver County Bulky Waste / West Class IVb (Landfill) has been broken into four Phases. The Permit Drawings show the four Phases in relation to the general site features. Phase I is the bottom or initial layer deposited in the excavated portions of the Landfill located south of the office; the bottom elevation of Phase I is approximately 12 feet below the surrounding elevation. Phase II is the upper layer of waste placed over Phase I; bringing the waste approximately 12 feet above the natural site elevations. Phase III will be located to the east and south of Phase II and be excavated approximately 12 feet below grade. Phase III will also be completed to a height of approximately 12 feet above existing grade. Phase IV is the final phase of the planned landfill operation and is located east of Phases I, II and III across the site access road. Phase IV will be excavated approximately 12 feet below existing grade and filled approximately 16 feet above the existing grade. The Landfill site is located at approximately 5,118 feet above mean sea level (msl).

The current operation of the Landfill is located within the Phase I area with borrow soils being excavated from the Phase III footprint. The Phase III excavation (85,630 cyd) will provide all operational and final cover soils for the waste being placed in both Phase I and Phase II (35,870 cyd airspace combined). Excess soils derived from the Phase III excavation will be stockpiled in the soil stockpile area.

#### **1.1.1 Fill Method**

As described in Section 3.2.3 of Part II – General Report, waste has been dumped at the toe of the working face and pushed uphill into place. The C&D wastes will continue to be dumped at the toe of the work face when possible and spread up the slope in one to two foot lifts, keeping the slope at a typical five to one (horizontal to vertical) configuration. The C&D wastes will then be compacted by making three to five passes up and down the slope.

#### **1.1.2 Interim Cover**

Interim cover will be placed in compliance with the DSHW Class IV requirements. Section R315-305 stipulates that timbers, wood, and other combustible waste be covered as needed to

avoid a fire. All exposed waste will be covered with a minimum of six inches of soil at a minimum of every 30 days.

### **1.1.3 Final Cover**

As specified in Rule R315-305-5, the final cover will consist of a minimum of two feet of soil, the upper six inches of which will be topsoil material capable of sustaining native vegetation. The soil will then be seeded with indigenous grasses and other shallow rooted vegetation.

### **1.1.4 Final Cover Elevations**

As discussed previously, the maximum elevation for the final cover is planned to be approximately 12 feet above surrounding grade for Phase 2 and 3 (approximately 5,125 feet above msl) and 16 feet above surrounding grade for Phase 4 (approximately 5,130 feet above msl). The cover will slope from the perimeter of each Phase (Phase I excluded) upward at approximately 6%. The side slopes of the final cover is planned to be constructed at a maximum slope of 4:1 (horizontal to vertical) with most of the upper portion of the Landfill being constructed to a 6% slope. These slopes should allow for some settlement without compromising the run-off characteristics of the cover soil. The Drawings show the layout and cross-section views of the Landfill Phases.

## **1.2 DESIGN AND LOCATION OF RUN-ON/RUN-OFF CONTROL SYSTEMS**

Most potential run-on from the east and northeast of the site will drain naturally into the Beaver River channel. Rainfall which lands to the north, northwest, west and southwest will naturally flow away from the landfill. A perimeter access road has been constructed around the Phase I, Phase II, and Phase III area (Appendix A) to provide vehicle access and divert potential run-on from the south-southeast away from the landfill and towards the Beaver River Channel. Peak flow from a 25-year, 24-hour storm (2.0 inches) was calculated using the Technical Release 55 (TR-55) method for small watersheds. This peak flow is estimated to be 5.31 cfs with a maximum depth of 0.97 feet in a channel having a slope of 0.0057 ft/ft. This channel will be created using an elevated perimeter access road, shallow channel (or a combination of the two) along the southern border which results in an elevation difference of at least 1 foot above the adjacent grade.

Given the existing topography of the Landfill, precipitation falling into Phase I, Phase III (future), and Phase IV (future) excavated areas (below the surround site grade) will naturally drain towards and be contained in the bottom of the excavated areas, runoff from the active landfill will be contained within the excavations. As the landfill elevation exceeds the surrounding natural grade the storm water will drain away from the active landfill area. At this point additional perimeter ditches and berms will be constructed to route the water from the Landfill's operational face but keeping it on-site and diverting it to appropriately sized detention structures. The design of these detention structures was based on a 25-year 24-hour storm event of 2.0 inches and a run-off curve number of 86. Using the TR55 graphical peak discharge method a peak discharge volume of 0.54 acre-feet total (0.32 acre-ft from P1 and 0.22 acre-ft from P2) from the 7.7 acres was estimated. Peak flows generated by this storm event will vary depending on the location of various ditches at the landfill and the size of the contributing area at the time of the design storm. To account for the variability of flows all ditches will be sized to convey the peak discharge. From the 25-yr 24-hr storm event a peak flow rate of 2.97 cfs was estimated. Located on the minimum planned slope (0.0023 ft/ft) a ditch carrying this magnitude of flow will need to be at least 0.9 feet deep. As currently planned all perimeter ditches will be constructed 12 inches deep to convey the design flows.

### **1.3 REGIONAL GEOLOGY**

The landfill is located along the western margin of the Mineral Mountains south of Milford, Utah. The landfill is situated on unconsolidated alluvial sediments derived from the Mineral Mountains to the east. The Mineral Mountain faults are mapped immediately south and east of the landfill but do not extend beneath the site. The Mineral Mountains trend generally north-south and are part of the structural transition between the Basin and Range Physiographic Province to the west and the Colorado Plateau Physiographic Province to the east. The Basin and Range Province is characterized by north-south trending block-faulted mountains separated by intermountain valleys. These valleys contain relatively thick deposits of semi-consolidated and unconsolidated alluvial material. The Colorado Plateau is characterized by high plateaus, which contain more continuous geologic strata. These plateaus were not as widely affected by the prevalent large-scale normal faulting that characterizes the Basin and Range Province. The transition zone between these two provinces contains geologic and physiographic features common to both provinces.

## **1.4 SITE SOILS**

Geologic mapping in the area shows soils on the west side of the Beaver River channel to consist of older alluvial fan deposits which are reported to be up to 30 feet thick in some areas. These soils contain sand gravel, silt and clay. Excavation within the site has generally shown a thin layer (1-3 feet) of permeable, loamy sand underlain by a thick layer of coarse, well graded gravel. This gravel layer is at least 100 feet thick and is comprised of gravel and cobbles with diameters of up to 4-inches in diameter.

## **1.5 FLOODPLAIN**

The site is nearly flat with no major drainages crossing the property. There is a stream bed (Beaver River) to the northeast of the site which will intercept surface run-off from the mountains to the east. The area has not been mapped as part of FEMA National Flood Insurance Program. The stream does not have a significant flood potential because flows released to the channel are controlled by the Minersville Reservoir a few miles up gradient from the landfill site. Topography from the 10-m Digital Elevation Model (DEM) of the Cave Canyon Quadrangle obtained from the Utah Automated Geographic Resource Center (AGRC) show the height of the west bank of the Beaver River is ~6 feet. The east bank of the river to is shown to be lower than the west. Water which escapes the channel in the event of a flood will overflow to the north and east of the landfill.

## **1.6 WETLANDS**

The Landfill is not located in or near wetlands.

## **1.7 GROUNDWATER**

Four underground wells are located within ~1/2 mile of the landfill site. A search of the Utah Division of Water Rights (DWR) database did not yield complete records/information for all the wells. However, according to those records, the two wells located nearest the site reported groundwater being encountered at depths of 123 and 98 feet below grade, respectively. The deeper well (located ~1800 ft northwest of the site) is utilized for stock watering; the other well is located on the landfill property and maintained/operated by the Beaver County Special Service District #5. The shallow well was installed in 1999 and has listed uses as municipal; this well provides water for landfill operations and maintenance. The nearest domestic use

well is located ~4,000 feet north of the site and is installed to a depth of 60 feet. Water quality information was not readily available for any of the wells in the vicinity of the landfill.

## 2.0 – CLOSURE PLAN

### 2.1 CLOSURE SCHEDULE

The Landfill will be closed in three operations; the first as the west half the existing landfill cell will be closed as Phase II is filled to final grade; the second will be the Closure of Phase III (east and south continuation of existing cell) and the last closure phase will be initiated as Phase IV (future cell) is completed. Soils needed for final cover will be obtained from excess borrow material obtained from previously excavated pits which will be stockpiled at the site. As indicated in Part II – General Report, the Phases have been designated to facilitate access, development and design. Based on facility life calculations using a 0.5% percent growth rate; closure is expected around the year 2090.

### 2.2 DESIGN OF FINAL COVER

As discussed previously, the final cover will consist of a minimum of two feet of soil six inches of which will consist of a topsoil material. The slopes of the side slopes of the final cover will be no steeper than a 4:1 (horizontal to vertical) with no portion of the final cover less than a 5% slope. The cover soil will be seeded with indigenous grasses.

### 2.3 CAPACITY OF SITE IN VOLUME AND TONNAGE

Based on reported waste acceptance for 2007 and assuming an in-place density of 1.25 ton/yd<sup>3</sup> and an annual growth rate of 0.5% the remaining Landfill capacity and projected life by phase are presented in the following summary table:

Active Phase	Year	Estimated Yearly C&D Waste (tons)	Estimated Yearly C&D Waste (yd <sup>3</sup> )	Cumulative Waste (yd <sup>3</sup> )	Remaining Airspace (yd <sup>3</sup> )
I	2007	2790.61	2232.49	18265.37	229,703
I	2008	2804.56	2243.65	20509.02	227,459
I	2009	2818.59	2254.87	22763.89	225,204
I	2010	2832.68	2266.14	25030.04	222,938
II	2011	2846.84	2277.47	27307.51	220,660
II	2012	2861.08	2288.86	29596.37	218,372
II	2013	2875.38	2300.31	31896.68	216,071
II	2014	2889.76	2311.81	34208.48	213,760

III	2015	2904.21	2323.37	36531.85	211,436
III	2016	2918.73	2334.98	38866.83	209,101
III	2017	2933.32	2346.66	41213.49	206,755
III	2018	2947.99	2358.39	43571.88	204,396
III	2019	2962.73	2370.18	45942.06	202,026
III	2020	2977.54	2382.03	48324.10	199,644
III	2021	2992.43	2393.94	50718.04	197,250
III	2022	3007.39	2405.91	53123.96	194,844
III	2023	3022.43	2417.94	55541.90	192,426
III	2024	3037.54	2430.03	57971.93	189,996
III	2025	3052.73	2442.18	60414.11	187,554
III	2026	3067.99	2454.39	62868.51	185,099
III	2027	3083.33	2466.67	65335.18	182,633
III	2028	3098.75	2479.00	67814.17	180,154
III	2029	3114.24	2491.39	70305.57	177,662
III	2030	3129.81	2503.85	72809.42	175,159
III	2031	3145.46	2516.37	75325.79	172,642
III	2032	3161.19	2528.95	77854.74	170,113
III	2033	3177.00	2541.60	80396.34	167,572
III	2034	3192.88	2554.31	82950.65	165,017
III	2035	3208.85	2567.08	85517.72	162,450
III	2036	3224.89	2579.91	88097.64	159,870
III	2037	3241.01	2592.81	90690.45	157,278
III	2038	3257.22	2605.78	93296.22	154,672
III	2039	3273.51	2618.80	95915.03	152,053
III	2040	3289.87	2631.90	98546.93	149,421
III	2041	3306.32	2645.06	101191.98	146,776
III	2042	3322.85	2658.28	103850.27	144,118
III	2043	3339.47	2671.57	106521.84	141,446
III	2044	3356.17	2684.93	109206.78	138,761
III	2045	3372.95	2698.36	111905.13	136,063
III	2046	3389.81	2711.85	114616.98	133,351
III	2047	3406.76	2725.41	117342.39	130,626
III	2048	3423.79	2739.04	120081.43	127,887
III	2049	3440.91	2752.73	122834.16	125,134
III	2050	3458.12	2766.49	125600.65	122,367
III	2051	3475.41	2780.33	128380.98	119,587
III	2052	3492.79	2794.23	131175.21	116,793
III	2053	3510.25	2808.20	133983.41	113,985
III	2054	3527.80	2822.24	136805.65	111,162
III	2055	3545.44	2836.35	139642.00	108,326
III	2056	3563.17	2850.53	142492.53	105,475
III	2057	3580.98	2864.79	145357.32	102,611
III	2058	3598.89	2879.11	148236.43	99,732
III	2059	3616.88	2893.51	151129.93	96,838
III	2060	3634.97	2907.97	154037.91	93,930
III	2061	3653.14	2922.51	156960.42	91,008
IV	2062	3671.41	2937.13	159897.55	88,070

IV	2063	3689.76	2951.81	162849.36	85,119
IV	2064	3708.21	2966.57	165815.93	82,152
IV	2065	3726.75	2981.40	168797.33	79,171
IV	2066	3745.39	2996.31	171793.64	76,174
IV	2067	3764.11	3011.29	174804.93	73,163
IV	2068	3782.94	3026.35	177831.28	70,137
IV	2069	3801.85	3041.48	180872.76	67,095
IV	2070	3820.86	3056.69	183929.45	64,039
IV	2071	3839.96	3071.97	187001.42	60,967
IV	2072	3859.16	3087.33	190088.75	57,879
IV	2073	3878.46	3102.77	193191.52	54,776
IV	2074	3897.85	3118.28	196309.80	51,658
IV	2075	3917.34	3133.87	199443.67	48,524
IV	2076	3936.93	3149.54	202593.21	45,375
IV	2077	3956.61	3165.29	205758.50	42,209
IV	2078	3976.40	3181.12	208939.62	39,028
IV	2079	3996.28	3197.02	212136.64	35,831
IV	2080	4016.26	3213.01	215349.65	32,618
IV	2081	4036.34	3229.07	218578.72	29,389
IV	2082	4056.52	3245.22	221823.94	26,144
IV	2083	4076.80	3261.44	225085.38	22,883
IV	2084	4097.19	3277.75	228363.13	19,605
IV	2085	4117.67	3294.14	231657.27	16,311
IV	2086	4138.26	3310.61	234967.88	13,000
IV	2087	4158.95	3327.16	238295.04	9,673
IV	2088	4179.75	3343.80	241638.84	6,329
IV	2089	4200.65	3360.52	244999.36	2,969
IV	2090	3710.80	2968.64	247968.00	0

## 2.4 FINAL INSPECTION

A final inspection will be performed at the Landfill site at the termination of landfilling activities. The final inspection will determine if the Landfill meets all the closure requirements as outlined in the permit and closure plans. The final inspection will be performed by both BCSSD and State of Utah DSHW personnel.

## **3.0 – POST-CLOSURE CARE PLAN**

### **3.1 SITE MONITORING**

There are no post-closure monitoring requirements for groundwater or gas at the Landfill since it is a Class IVb facility. However, other physical aspects of the Landfill will be monitored on a quarterly basis.

Landfill topography shall be visually checked for depressions that could result in ponding or rapid erosion. Irregularities in the surface of the final cover will be regraded and revegetated as needed to protect the surface from erosion and to eliminate ponding.

Side slopes will be maintained or reestablished with a maximum gradient of 4:1 and the top slopes will be maintained at no less than 5% to prevent ponding. The frequency of monitoring may be reduced only after a successful demonstration to the Executive Secretary that the closed Landfill has stabilized.

During post-closure, run-off from the covered landfill will be directed toward ditches constructed to collect and transport runoff to natural drainages east and northeast of the site. The ditches will be inspected quarterly through the post-closure period. Repairs to the ditches will be completed as part of the maintenance activities.

### **3.2 CHANGES TO RECORD OF TITLE, LAND USE AND ZONING**

The Beaver County Recorder will be provided plats and a statement of fact concerning the location of any disposal site no later than 60 days after certification of closure. If necessary, the closed Landfill will be rezoned to conform to the existing Beaver County zoning regulations after final closure. A description of the Landfill history and filled areas will be permanently appended to the record of title. Land use restrictions will be assigned to the site in compliance with existing regulations for closed landfills at the time of closure.

### **3.3 MAINTENANCE**

Post-closure maintenance activities will be designed and implemented under the direction of a licensed professional engineer in response to results of inspections. Design decisions will be made after the first post-closure quarterly inspection and implemented within 30 days after

identification of maintenance issues. Results of post-closure maintenance shall be reported to the Executive Secretary by a professional engineer licensed in the state of Utah.

Because of the arid climate in Beaver County, maintenance of final covers and run-on/run-off systems should be minimal. Final cover and control structures will be inspected quarterly as indicated previously.

Run-on/run-off control structures and final covers could be damaged by an unusually intense storm. Consequently, an unscheduled inspection will be required after any occurrence of a 25-year storm event within a five-mile radius of the site. If the post-storm inspection discloses damage, it will be appraised by a licensed engineer. The engineer will solicit bids if necessary and supervise repairs completed by BCSSD or a licensed contractor. Funds for payment for the repair work will be disbursed from the Financial Assurance Plan after approval by the Executive Secretary.

#### **3.4 POST-CLOSURE CONTACTS**

Beaver County Special Service District #5 ..... (435) 386-2530

## **4.0 – FINANCIAL ASSURANCE**

### **4.1 CLOSURE COSTS**

The Milford Landfill is planned to be closed in a series of individual events. After the western half of the existing landfill cell is to final grade; the first of the closure events will take place. The second closure event will be completed after the filling of the eastern continuation of the existing landfill cell to final grade. The final closure event will be completed as the Phase IV cell reaches final design grade. Due to the operational nature of the landfill; the largest area of the Landfill to be open will be approximately 2 acres. The closure cost estimates are based on the cost to close the largest area, including the cost of obtaining, moving and placing the cover material, final grading, placing topsoil, fertilizing and seeding.

### **4.2 POST CLOSURE CARE COSTS**

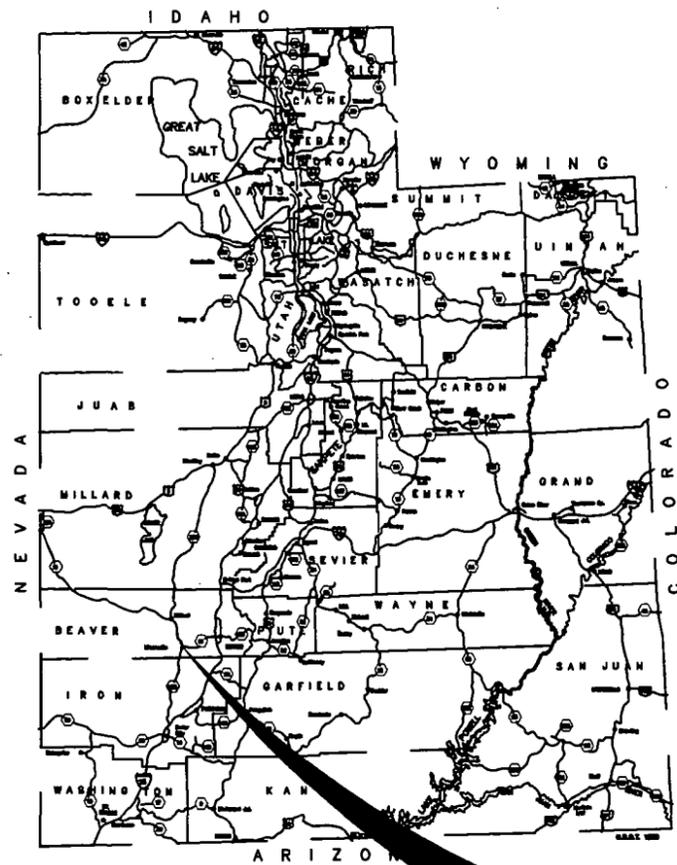
The post-closure estimate must be the cost for completing care reasonably expected during the 30-year post-closure period. These tasks include site inspections, maintenance, and record keeping.

### **4.3 FINANCIAL ASSURANCE MECHANISM**

BCSSD County intends to comply with the financial assurance requirements by demonstrating financial ability based on the local government financial test. BCSSD County will submit the required financial information in a separate submittal. Detailed financial assurance costs are presented in Appendix D.

APPENDIX A

# Permit Renewal Application Milford Class IVb Landfill Beaver County, Utah



0 5,000 10,000 20,000 30,000  
SCALE IN FEET

## DRAWING INDEX

SHEET	TITLE
1	TITLE SHEET
2	GENERAL ARRANGEMENT
3	PHASE I DEVELOPMENT
4	PHASE II-III DEVELOPMENT
5	PHASE III-IV DEVELOPMENT
6	PHASE IV-FINAL COVER
7	POTENTIAL RUN-ON AREAS
8	FINAL CAP RUN-OFF AREAS

Beaver Special Services District #6  
P.O. Box 278  
Milford, Utah 84751-0278  
(435) 388-2530

### CONSULTANTS



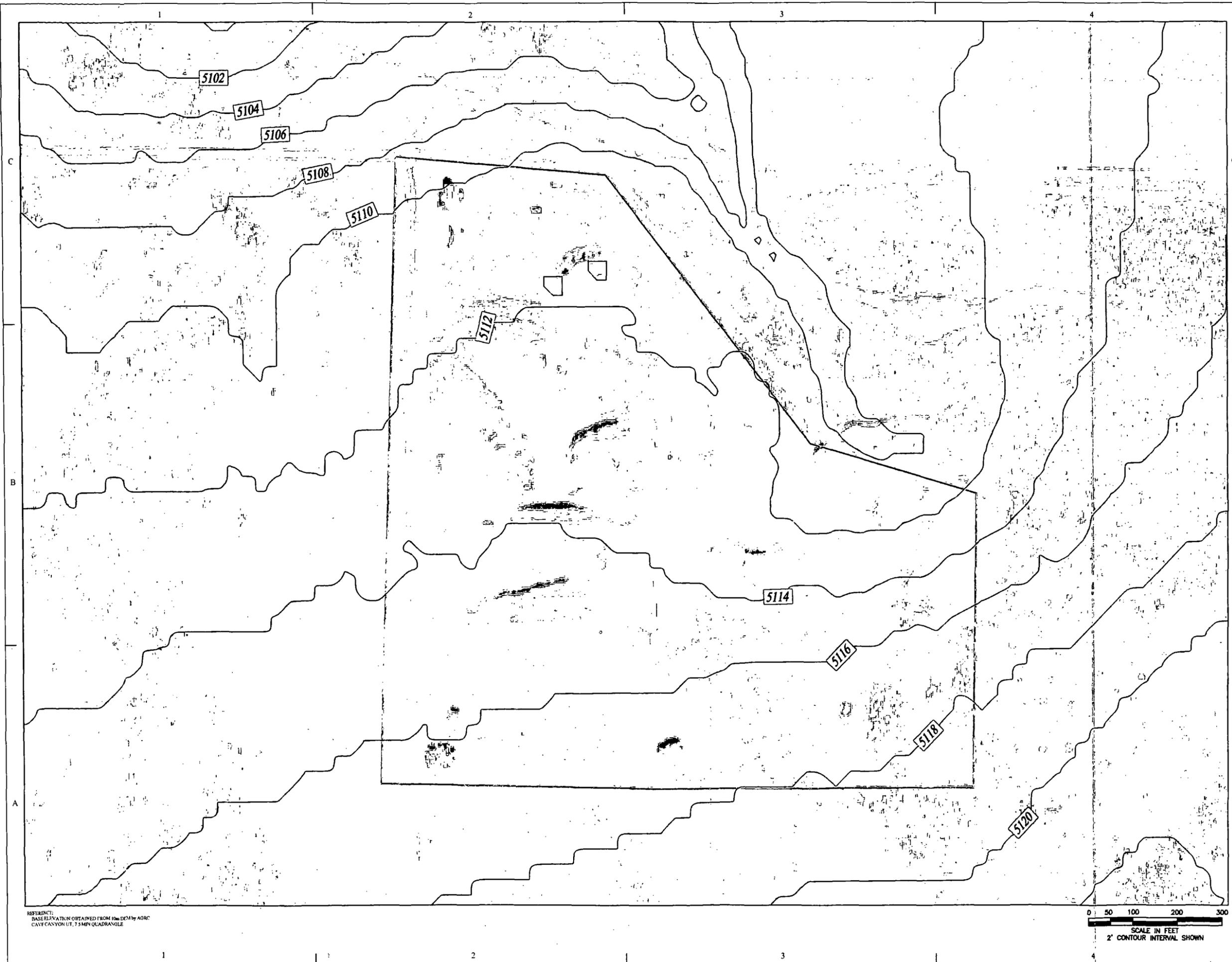
ideas for a changing world

4153 South Commerce Drive  
Salt Lake City, Utah 84107  
(801)270-9400 Fax: (801)270-9401

MARK	DATE	DESCRIPTION
	02/20/08	PERMIT APPLICATION
ISSUE:		
PROJECT NO: 00639-003		
CAD DWG FILE: 00639\003\Milford Class IVb.dwg		
DRAWN BY: JAH		
DESIGNED BY: JAH		
CHECKED BY: BDM		
COPYRIGHT: IGES 2008		

SHEET TITLE  
MILFORD CLASS IV B LANDFILL  
**TITLE SHEET**

REFERENCE:  
ADAPTED FROM MAP  
PROVIDED BY CLIENT.



Beaver Special Services District #5  
 P.O. Box 278  
 Milford, Utah 84751-0278  
 (435) 366-2530

CONSULTANTS



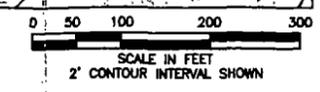
ideas for a changing world

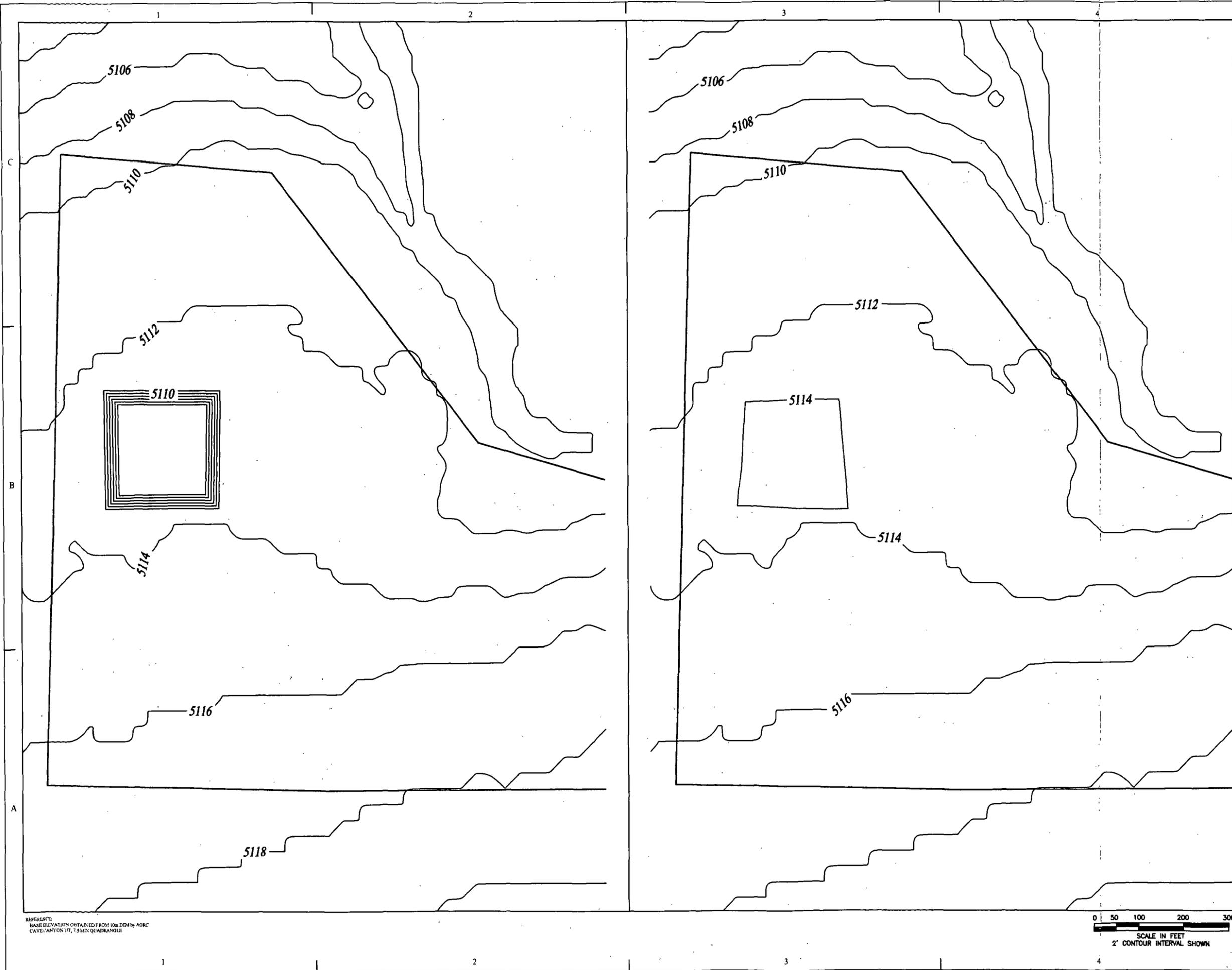
4153 South Commerce Drive  
 Salt Lake City, Utah 84107  
 (801)270-9400 Fax: (801)270-9401

— SITE BOUNDARY

MARK	DATE	DESCRIPTION
	02/20/08	PERMIT APPLICATION
ISSUE:		
PROJECT NO.: 00639-003		
CAD DWG FILE: 00639\003\Milford Class IVb.dwg		
DRAWN BY: JAH		
DESIGNED BY: JAH		
CHECKED BY: BDM		
COPYRIGHT: IGES 2008		

SHEET TITLE  
 MILFORD CLASS IV B LANDFILL  
**GENERAL  
 ARRANGEMENT**





REFERENCE:  
 BASE ELEVATION OBTAINED FROM 10m DEM by AORC  
 CAVE CANYON UT, 7.5 MIN. QUADRANGLE



Beaver Special Services District #5  
 P.O. Box 278  
 Milford, Utah 84761-0278  
 (435) 388-2530

CONSULTANTS



ideas for a changing world

4153 South Commerce Drive  
 Salt Lake City, Utah 84107  
 (801)270-9400 Fax: (801)270-9401

Phase I Excavation: 22,704 cyd  
 Phase I Airspace: 26,274 cyd

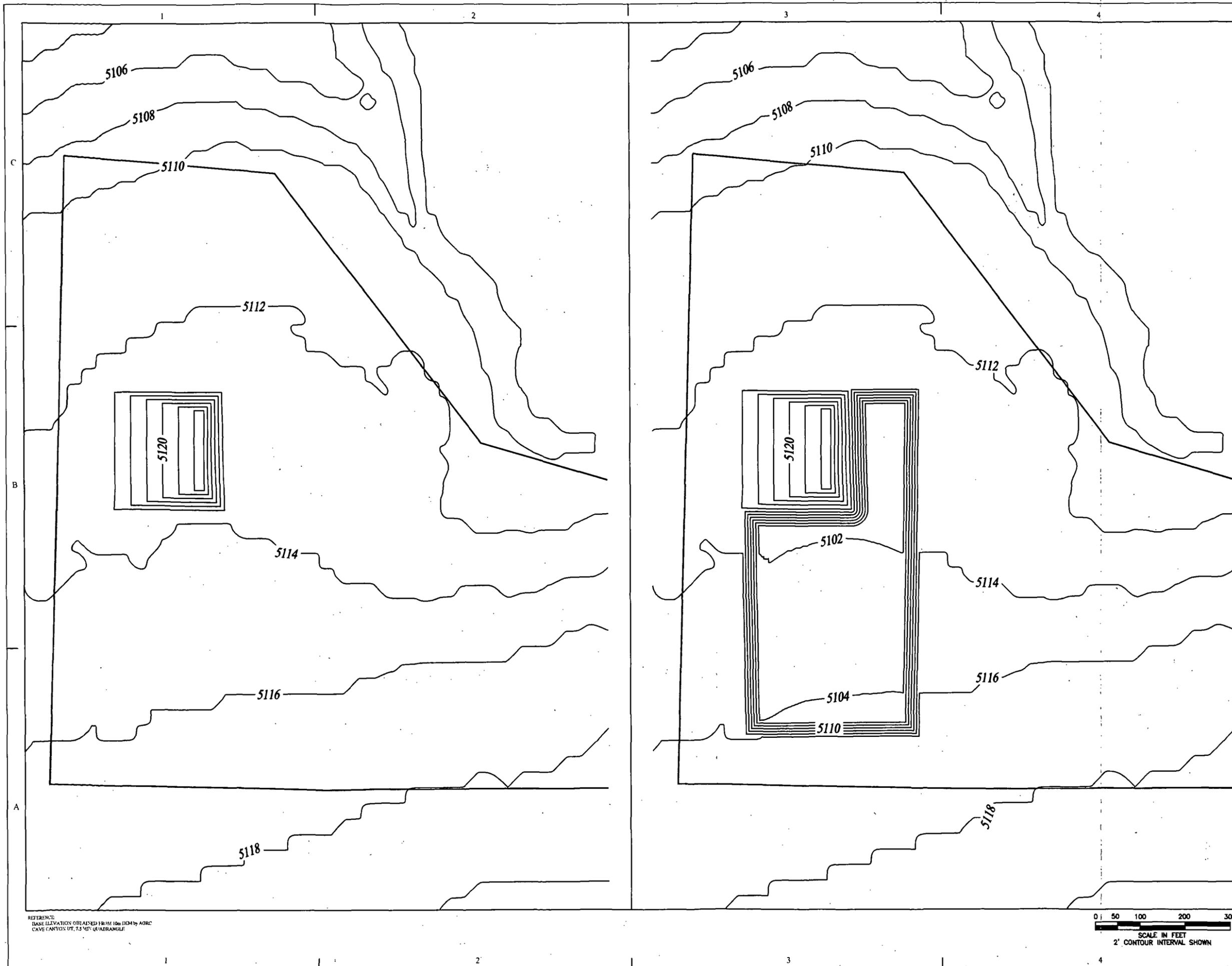
— SITE BOUNDARY

MARK	DATE	DESCRIPTION

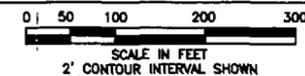
02/20/08 PERMIT APPLICATION

ISSUE:  
 PROJECT NO.: 00639-003  
 CAD DWG FILE: 00639\003\..Milford Class IVb.dwg  
 DRAWN BY: JAH  
 DESIGNED BY: JAH  
 CHECKED BY: BDW  
 COPYRIGHT: IGES 2008

SHEET TITLE  
 MILFORD CLASS IV B LANDFILL  
**PHASE I  
 DEVELOPMENT**



REFERENCE:  
 BASE ELEVATION OBTAINED FROM 10m DEM by AORC  
 CAVE CANYON UT, 7.5 MIN. QUADRANGLE



Beaver Special Services District #6  
 P.O. Box 278  
 Milford, Utah 84751-0278  
 (435) 386-2530

CONSULTANTS



ideas for a changing world

4153 South Commerce Drive  
 Salt Lake City, Utah 84107  
 (801)270-9400 Fax: (801)270-9401

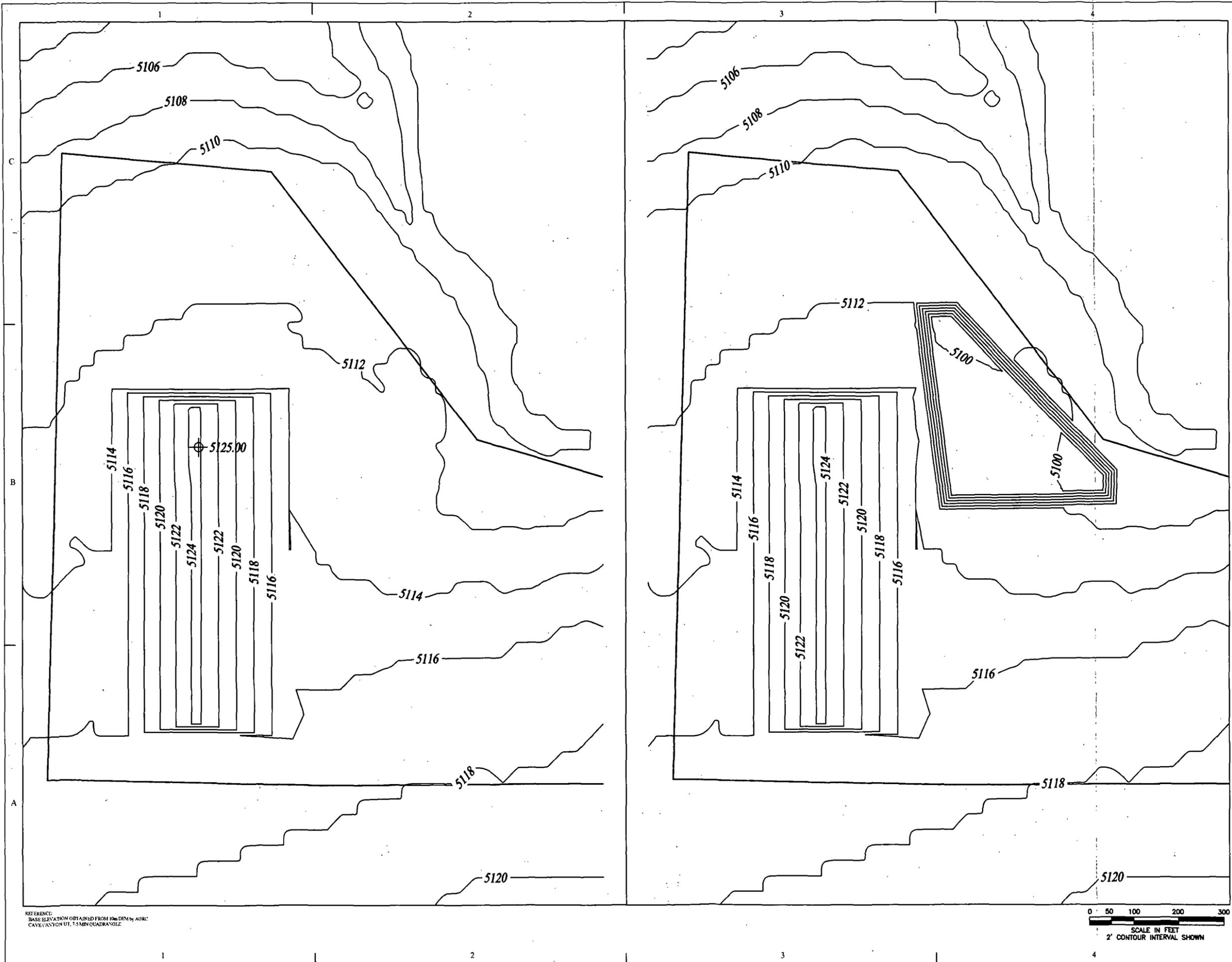
Phase II Excavation: 0 cyd  
 Phase II Airspace: 9,595 cyd  
 Phase III Excavation: 85,630 cyd

— SITE BOUNDARY

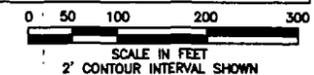

	02/20/08	PERMIT APPLICATION
MARK	DATE	DESCRIPTION

ISSUE:  
 PROJECT NO.: 00639-003  
 CAD DWG FILE: 00639\003\Milford Class IVb.dwg  
 DRAWN BY: JAH  
 DESIGNED BY: JAH  
 CHECKED BY: BDM  
 COPYRIGHT: IGES 2008

SHEET TITLE  
 MILFORD CLASS IV B LANDFILL  
**PHASE II & III  
 DEVELOPMENT**



REFERENCE:  
 BASE ELEVATION OBTAINED FROM 1000 DEM by AURIC  
 CAVE CANYON UT, 7.5 MIN QUADRANGLE



Beaver Special Services District #5  
 P.O. Box 278  
 Milford, Utah 84751-0278  
 (435) 386-2530

CONSULTANTS



4153 South Commerce Drive  
 Salt Lake City, Utah 84107  
 (801)270-9400 Fax: (801)270-9401

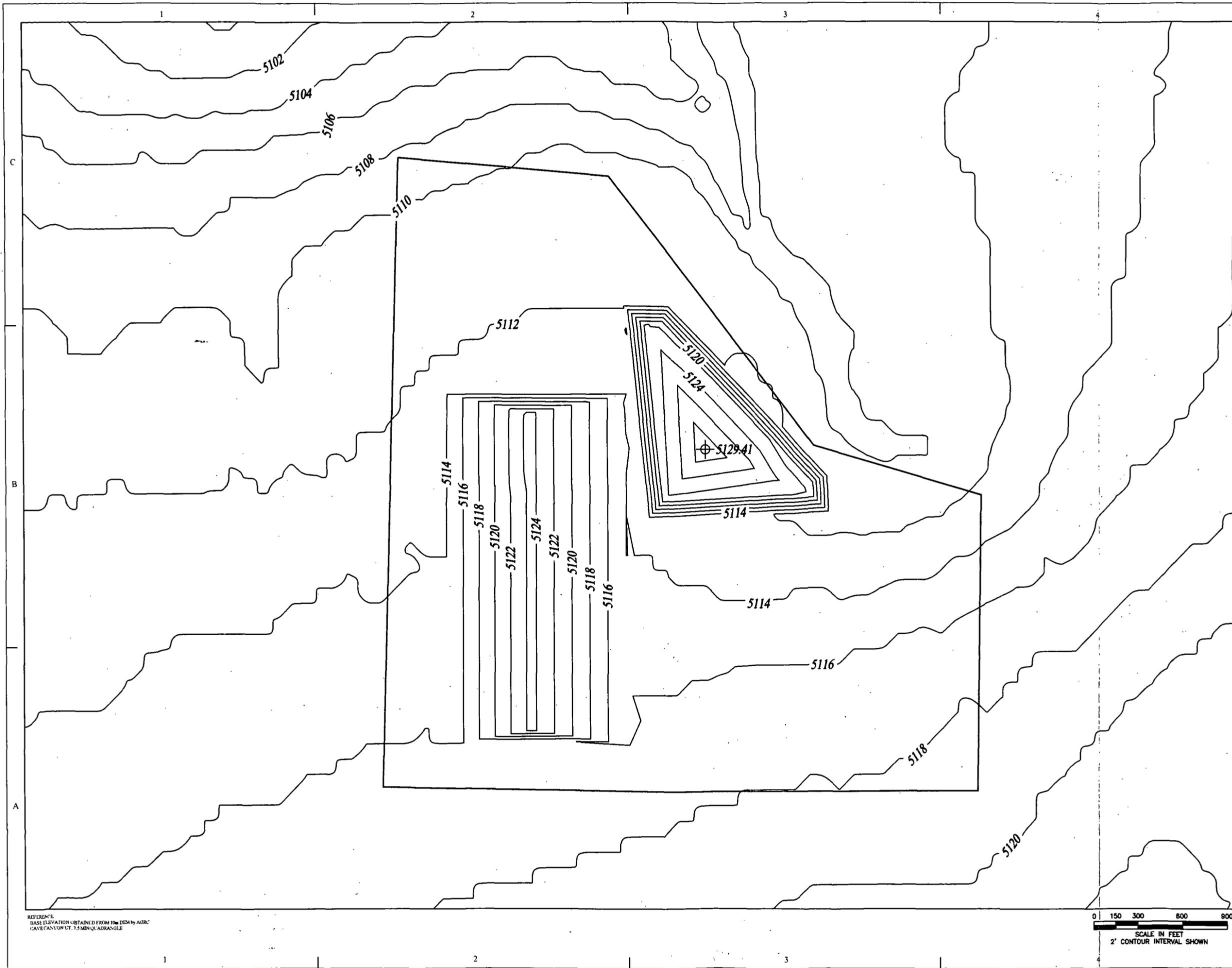
Phase III Airspace: 123,550 cyd  
 Phase IV Excavation: 47,500 cyd

— SITE BOUNDARY

MARK	DATE	DESCRIPTION
	02/20/08	PERMIT APPLICATION

ISSUE:  
 PROJECT NO: 00639-003  
 CAD DWG FILE: 00639\003\Milford Class IVb.dwg  
 DRAWN BY: JAH  
 DESIGNED BY: JAH  
 CHECKED BY: BDM  
 COPYRIGHT: IGES 2008

SHEET TITLE  
 MILFORD CLASS IV B LANDFILL  
**PHASE III & IV  
 DEVELOPMENT**



Beaver Special Services District #5  
P.O. Box 278  
Milford, Utah 84751-0278  
(435) 388-2530

CONSULTANTS



ideas for a changing world

4153 South Commerce Drive  
Salt Lake City, Utah 84107  
(801)270-9400 Fax: (801)270-9401

Phase IV Airspace: 88,550 cyd  
Total Airspace: 178,950 cyd

— SITE BOUNDARY

MARK	DATE	DESCRIPTION
	02/20/08	PERMIT APPLICATION

ISSUE:  
PROJECT NO: 00639-003  
CAD DWG FILE: 00639\003\...Milford Class IV.dwg  
DRAWN BY: JAH  
DESIGNED BY: JAH  
CHECKED BY: BDM  
COPYRIGHT: IGES 2008

SHEET TITLE  
MILFORD CLASS IV B LANDFILL  
**PHASE IV**  
**FINAL COVER**

Beaver Special Services District #5  
P.O. Box 278  
Milford, Utah 84761-0278  
(435) 386-2530

CONSULTANTS



ideas for a changing world

4153 South Commerce Drive  
Salt Lake City, Utah 84107  
(801)270-9400 Fax: (801)270-9401

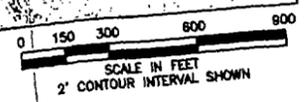
— SITE BOUNDARY

**RUN-ON AREA : 1**  
**9495898.09 SQ FT**  
**218.00 ACRES**

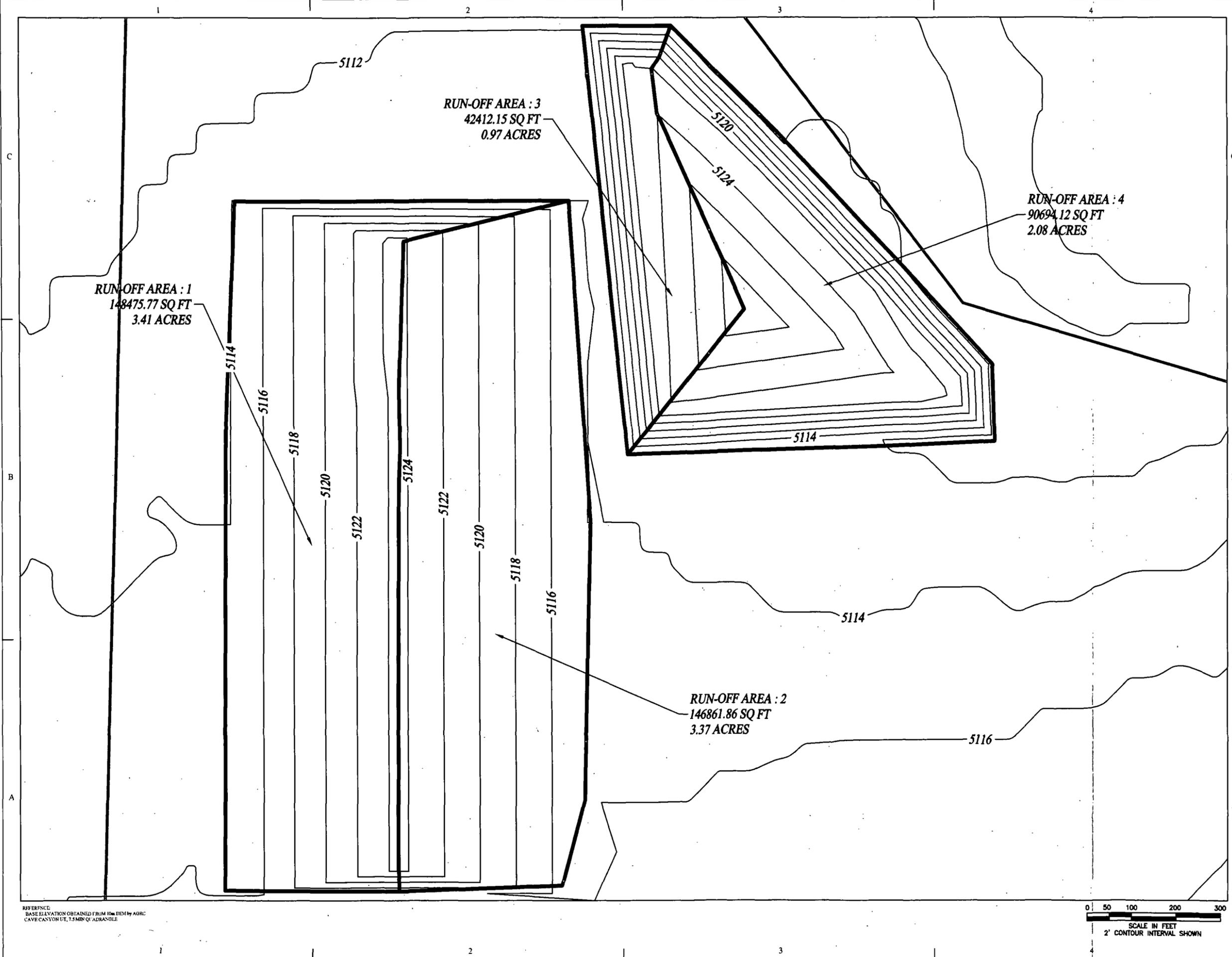
MARK	DATE	DESCRIPTION
	02/20/08	PERMIT APPLICATION

ISSUE:  
PROJECT NO.: 00639-003  
CAD DWG FILE: 00639\003\Milford Class IV.dwg  
DRAWN BY: JAH  
DESIGNED BY: JAH  
CHECKED BY: BDM  
COPYRIGHT: IGES 2008

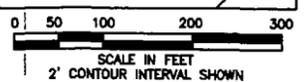
SHEET TITLE  
MILFORD CLASS IV B LANDFILL  
**POTENTIAL  
RUN-ON AREA**



REFERENCE  
BASE ELEVATION OBTAINED FROM 15m DEM BY AORC  
CAVE CANYON UT. 7.5 MINUTE QUADRANGLE



REFERENCE:  
 BASE ELEVATION OBTAINED FROM 100' BENCH BY AGRC  
 CAVE CANYON UT, 7.5 MIN Q' ADRIANDE



Beaver Special Services District #5  
 P.O. Box 278  
 Milford, Utah 84751-0278  
 (435) 386-2530

CONSULTANTS



4153 South Commerce Drive  
 Salt Lake City, Utah 84107  
 (801)270-9400 Fax: (801)270-9401

— SITE BOUNDARY

MARK	DATE	DESCRIPTION
	02/20/08	PERMIT APPLICATION
ISSUE:		
PROJECT NO.: 00639-003		
CAD DWG FILE: 00639\003\..Milford Class IVb.dwg		
DRAWN BY: JAH		
DESIGNED BY: JAH		
CHECKED BY: BDM		
COPYRIGHT: IGES 2008		

SHEET TITLE  
 MILFORD CLASS IV B LANDFILL  
**FINAL CAP**  
**RUN-OFF AREAS**

## APPENDIX B

at M. Fee Paid \$

by Dep. Book Page Ref:

Mail tax notice to GRANTEE Address P.O. Box 278  
Milford, UT 84751

**WARRANTY DEED**

181873

MAX M. MAYER, Attorney in fact for DAVID CAMPBELL  
of Milford, UT 84751 County of Beaver State of Utah, hereby

CONVEY and WARRANT to  
BEAVER COUNTY SPECIAL SERVICE DISTRICT #5

of Milford, UT 84751 County of Beaver, State of Utah

for the sum of \*\*\*\*\* TEN AND NO/100 DOLLARS \*\*\*\*\* DOLLARS

the following described tract of land in Beaver County,

State of Utah, to-wit:

See Attached EXHIBIT 'A'...

FILED FOR RECORD  
10:20'clock AM  
DEC 15 1993  
Beaver County Recorder  
Fee \$ 13.00

5927-5-346  
SECURITY TITLE COMPANY

WITNESS the hand of said grantor, this 8 day of December A. D. 19 93

Signed in the presence of

DAVID CAMPBELL

By: Max M. Mayer, Atty. in fact  
MAX M. MAYER, Attorney in Fact

STATE OF UTAH  
COUNTY OF BEAVER

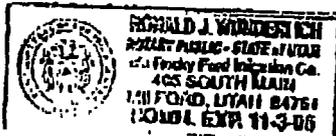
{ SS.

On the 10<sup>th</sup> day of December A.D. 1993 personally  
appeared before

MAX M. MAYER, Attorney in fact for DAVID CAMPBELL

the signer of the within instrument who duly acknowledged  
to me that he executed the same.

Ronald J. Wardenrich  
Notary Public Beaver, Utah



BOOK 272 PAGE 437

EXHIBIT 'A'...

Parcel 1:

The Southwest quarter of the Southeast quarter and the Northwest quarter of the Southwest quarter of Section 21, Township 29 South, Range 10 West, Salt Lake Base and Meridian.

Parcel 2:

Beginning at the Southeast corner of the Southwest quarter of Section 21, Township 29 South, Range 10 West, Salt Lake Base and Meridian, and running thence 1303 feet; thence North 56°57' West 1602 feet; thence South 2170 feet; thence East 1320 feet to the point of beginning.

Parcel 3:

Beginning at the Southwest corner of the Northwest quarter of Section 21, Township 29 South, Range 10 West, Salt Lake Base and Meridian, and running thence East 643 feet; thence North 1605 feet; thence North 86°02' West 578 feet; thence Southerly 1640 feet to the point of beginning.

TOGETHER WITH all rights, privileges, easements, rights of way, improvements and appurtenances thereunto belonging or in anyway appertaining thereto.

\* \* \* \*

TLR

W M M



DATE \_\_\_\_\_

A. Title of Account Escrow - Beaver County Special Service District #5

B. PTIF Account Number(s) 6236

**ACTION:**

<input checked="" type="checkbox"/> Create New PTIF Account (Sec. A,C,D,E,F)	<input type="checkbox"/> Change Bank/Account (Sec. A,B,E,F)	<input type="checkbox"/> Add Bank/Account (Sec. A,B,E,F)
<input type="checkbox"/> Change Address (Sec. A,B,D,F)	<input type="checkbox"/> Change Authorized Individuals (Sec. A,B,C,F)	<input type="checkbox"/> Change Internet Access (Sec. A,B,C,F)

**C. Individuals Authorized to Make Deposits/Withdrawals:**

<u>NAME</u>	<u>TITLE</u>	<u>PHONE</u>	<u>INTERNET ACCESS (Y/N) *</u>
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

D. PTIF Statement Mailing Address: Beaver County Special Service District #5  
Attn: Tonia Pugh  
P.O. Box 878  
Wilford, UT 84751

**E. Bank (Depository) Information:**

**New/Additional Bank**

**Delete Bank**

a. Name of Bank \_\_\_\_\_

Name of Bank \_\_\_\_\_

b. Account Number \_\_\_\_\_

Account Number \_\_\_\_\_

Checking  Savings  Other \_\_\_\_\_

F. **Authorization:** In accordance with applicable statutes and procedures established by the Utah State Treasurer, we the undersigned hereby authorize the Utah State Treasurer to make the above changes and/or initiate wire and/or automated clearing house (ACH) credit entries and/or debit entries to our bank indicated above. The depository named above is authorized to credit and/or debit the same to such account. This authorization is to remain in full force and effect until the Utah State Treasurer has received written notification from us of its termination.

Signed [Signature] 2-6-02  
 (Date)  
 Name DAVID CHRISTENSEN  
 Title CHAIRMAN

Signed [Signature] 2-6-02  
 (Date)  
 Name Scott Wiseman  
 Title Board member

**TWO SIGNATURES REQUIRED**

Please **attach a deposit slip** and return this form to:

Utah State Treasurer's Office  
 215 State Capitol  
 Salt Lake City, Utah 84114

## II. AGREEMENT

The undersigned hereby deliver to the Treasurer, the Proceeds and Additional amount(s) to be held and disposed of by the Treasurer in accordance with the duties, instructions, and upon the terms and conditions hereinafter set forth in this Escrow Agreement to which the undersigned hereby agree:

1. For purposes of this Escrow Agreement and this Escrow Agreement only:
  - (a) The Treasurer shall not incur any liability in acting upon any written authorization and request delivered hereunder and believed by the Treasurer to be genuine and to be signed by the proper parties.
  - (b) The Treasurer may consult with legal counsel in the event of any dispute or question as to the construction of the Treasurer's duties hereunder and shall not be held to any liability for acting in accordance with advice so received.
  - (c) The Treasurer shall have a first lien on the moneys held by it hereunder for its compensation and for any costs, liability or expense or counsel fees it may incur.
2. In the event of any disagreement between the undersigned or any of them, and/or any other person, resulting in adverse claims and demands being made in connection with or for any moneys involved herein or affected hereby, the Treasurer shall be entitled at its option to refuse to comply with any such claim or demand, so long as such disagreement shall continue, and in so refusing the Treasurer may refrain from making any delivery or other disposition of any moneys involved herein or affected hereby and in so doing the Treasurer shall not be or become liable to the undersigned or any of them or to any person or party for its failure or refusal to comply with such conflicting or adverse demands, and the Treasurer shall be entitled to continue so to refrain and refuse so to act until:
  - (a) The rights of the adverse claimants have been finally adjudicated in a court assuming and having jurisdiction of the parties and the moneys involved herein or affected hereby; and/or
  - (b) All differences shall have been adjusted by agreement and the Treasurer shall have been notified thereof in writing signed by all of the persons interested.
3. The fees for the usual services of the Treasurer under the terms of this Escrow agreement are set forth in the schedule attached hereto as **Exhibit A**. It is agreed that additional compensation shall be paid to the Treasurer for any additional or extraordinary service it may be requested to render hereunder, and the Treasurer shall be reimbursed for any out-of-pocket expenses (including, without limitation, fees of counsel) reasonably incurred in connection with additional or extraordinary services.
4. The Entity and the State hereby agree that the deposit of the Proceeds shall constitute compliance with applicable deposit and investment provisions of the Instrument.
5. The duties of the Treasurer under the terms of this Escrow Agreement are as follows:
  - (a) The Treasurer shall receive into a separate fund (the "Escrow Account") Proceeds and any additional amounts to be used in connection with the Project.
  - (b) The Treasurer shall reimburse Entity in amounts authorized in writing by the Entity and the State.
  - (c) Each authorization must be signed by one official from both the Entity and the State, except as provided in (i) of this section, and shall be substantially the same as the form attached as **Exhibit B**. On behalf of the Entity, the written authorization and request shall be signed by any one of the officials of the Entity identified in Section I.A.1. above. On behalf of the State, the written authorization and request shall be signed by any one of the officials of the State identified in Section I.A.2. above. The Treasurer assumes no responsibility for expenditure of moneys paid out

of the Escrow Account pursuant to a written authorization and request properly signed and delivered the Treasurer as provided herein.

(i)

If the Entity fails to provide closure, post-closure, or corrective action of the solid waste management facility as required by the *Utah Solid Waste Permitting and Management Rules* and the Entity's solid waste disposal permit, the Executive Secretary will issue an order to close under the authority of Section 19-6-107(7) of the Utah Solid and Hazardous Waste Act. Upon completion of the Administrative process, including the Entity's right to contest and appeal the administrative action, the State may independently request, in writing, reimbursement to a State-approved and authorized third party for the costs related to the third party's activities for closure, post-closure or corrective actions at the facility.

(d) If a written authorization and request indicates that an amount (the "Retained Amount") payable to a Provider is to be held for retainage pending completion of the Project or the lapse of time, the Treasurer shall segregate such amount and shall invest the Retained Amount in an interest-bearing account (the "Separate Account"), the interest on which shall accrue for the benefit of the Provider. The Retained Amount and all accrued interest thereon shall be disbursed by the Treasurer in the same manner as provided in paragraph 5(b) hereof. All fees charged or incurred by the Treasurer relating to the establishment, investment and disbursement of the Separate Account shall be borne solely by the Provider and may be withheld by the Treasurer from the Separate Account prior to the disbursement thereof; provided, however, that if such fees are borne by the Separate Account, and if the interest earned on the Separate Account is less than the amount of such fees, then the fees withheld from such Separate Account shall not exceed the interest earned and the balance of such fees shall be paid by the Entity.

(e) The funds deposited by the parties hereto in the Escrow Fund and in any Separate Account shall be invested by the Treasurer in the Utah Public Treasurers' Investment Fund established by Section 51-7-5 of the Utah Code. All interest earned on moneys held in the Escrow Account shall be retained therein and disbursed as provided herein.

(f) The Treasurer shall report at least monthly concerning the receipts, disbursements and status of the Escrow Account. The reports shall be mailed to the Entity and to the State at their respective addresses as shown in Section I.A. above. Notification of changes of address, if any, shall be in writing and mailed to the parties at their respective addresses as shown in Section I.A. above.

(g) This Escrow Agreement will be terminated after payment of the fees and out-of-pocket expenses of the Treasurer, and upon liquidation of the Escrow Account as provided herein. This Escrow Account, upon the earlier to occur of:

(i) receipt by the Treasurer of a written authorization and request, signed as provided in paragraph 5(c) hereof, stating that the acquisition, construction, improvement and extension of the Project is complete, that all obligations and costs in connection with the Project which are payable out of the Escrow Account have been paid and discharged, and that the Treasurer is authorized and directed to transfer all moneys in the Escrow Fund to the Entity or such other disposition as may be agreed by the State and the Entity; or

(ii) receipt by the Treasurer of a written certificate of the State, signed by the appropriate representatives thereof as identified in paragraph 5(c) hereof, stating that at least \_\_\_\_\_ months have expired from the date of this Agreement and that all remaining moneys in the Escrow Account are to be transferred to the State as a prepayment on the Bond purchased by the State or such other disposition as may be specified by the State.

6. This Agreement may be modified or amended only by a written Amendment attached to this Agreement and signed by the parties to this Agreement.

Entity: Beaver County Special Service District # 5

By: [Signature]

Title: CHAIRMAN

Attest and Countersign:

By: [Signature]

Title: Secretary

Utah Solid & Hazardous Waste Control Board  
STATE: ~~Utah Drinking Water Board~~

By: [Signature]

Title: Executive Secretary

STATE: ~~Utah Board of Water Resources~~

By: \_\_\_\_\_

Title: \_\_\_\_\_

Accepted:

Treasurer

By: [Signature]

Title: \_\_\_\_\_

**ROBERT C. KIRK  
FINANCIAL MANAGER**

## APPENDIX C

**BULKY WASTE/WEST CLASS IVB LANDFILL  
Random Load Inspection Record**

<b>INSPECTION INFORMATION</b>	
Inspector's Name:	
Date of Inspection:	
Time of Inspection:	
Facility Name:	
<b>TRANSPORTER INFORMATION</b>	
Company Name:	
Address:	
Phone Number:	
<b>VEHICLE INFORMATION</b>	
Driver's Name:	
Vehicle Type:	
Vehicle License Number:	
Description of Waste:	
<b>OBSERVATIONS AND ACTIONS TAKEN</b>	
Photo Documentation: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Driver's Signature\*: \_\_\_\_\_ Date: \_\_\_\_\_

Inspector's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

\*Driver's signature hereon denotes: His presence during the inspection and does not admit, confirm or identify liability.

# BULKY WASTE/WEST LANDFILL INSPECTION FORM

Performed by: \_\_\_\_\_ Date: \_\_\_\_\_

	Overall Condition	
	Satisfactory	Needs Work*
<b>I. Structures and Roads</b>		
1. Buildings	_____	_____
2. Fences	_____	_____
3. Gates	_____	_____
4. Road leading to facility	_____	_____
5. Inside perimeter road	_____	_____

\*Specify recommended repairs and/or list actions taken:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<b>II. Operations</b>		
1. Litter and weed control	_____	_____
2. Excavations	_____	_____
3. Daily cover	_____	_____
4. Final cover	_____	_____
5. Waste Piles		
a. Appliances	_____	_____
b. Construction/Demolition	_____	_____
c. Tires	_____	_____
d. Inert waste	_____	_____
e. Car bodies	_____	_____
f. Yard waste	_____	_____
6. Recyclables/Furniture storage area	_____	_____

\*Specify recommended repairs and/or list actions taken:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Class IV Landfill

Date   /  /  

	License Number	Bill to Name	Signature	Fee	Receipt Number	Household		Const.		Tires			Metal	Furniture	Yard	Dead Animals			Total Tonnage	Remarks
						com	res	com	res	C	T	I				S	M	L		
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
						Total All Columns														

Legend: com = commercial - \$12 ton  
 res = residential  
 12.00 ton C = car-\$1  
 T = truck -\$5

I = implement \$10  
 S = small - \$2  
 M = medium - \$3  
 L = large - \$5

1/4 = .25  
 1/3 = .33  
 1/2 = .50  
 2/3 = .66

\_\_\_\_\_  
 Signature of operator

## APPENDIX D

## LANDFILL POST-CLOSURE COSTS (30 YEARS)

### Section 1.0 - Engineering

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
1.1	Post-Closure Plan	NA			\$0
1.2	Annual Report (including results from gas, leachate, and ground water sampling - details of maintenance performed)	LS	\$200	30	\$6,000
a	Semiannual Site Inspections	LS	\$200	60	\$12,000
b	Plan Update	LS	\$0	0	\$0
<b>Engineering Subtotal</b>					<b>\$18,000</b>

### Section 2.0 - Gas Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS	\$0	0	\$0
2.2	Sample Analysis	NA	\$0	0	\$0
2.3	Report (Part of Annual Report)				
<b>Gas Collection System - Sampling Subtotal</b>					<b>\$0</b>

### Section 3.0 - Leachate Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS	\$0	0	\$0
2.2	Sample Analysis	NA	\$0	0	\$0
2.3	Report (Part of Annual Report)				
<b>Leachate Collection System - Sampling Subtotal</b>					<b>\$0</b>

### Section 4.0 - Ground Water Monitoring System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
3.1	Sample Collection	LS	\$0	0	\$0
3.2	Sample Analysis	LS	\$0	0	\$0
3.3	Report (Part of Annual Report)				
<b>Ground Water Collection System - Sampling Subtotal</b>					<b>\$0</b>

### Section 5.0 - Facility Operations and Maintenance

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
4.1	Cover				
a	Soil Replacement	LS	\$500	6	\$3,000
b	Vegetation/Reseeding	LS	\$100	6	\$600
4.2	Storm Water Protection Structures				
a	Ditch and Culvert Maintenance	LS	\$0	0	\$0
b	Berm and Basin Maintenance	LS	\$0	0	\$0
4.3	Gas Collection System				
a	System Operation	NA	\$0	0	\$0
b	System Repair	LS	\$0	0	\$0
4.4	Leachate Collection System				
a	System Operation	NA	\$0	0	\$0
b	System Repair	NA	\$0	0	\$0
4.5	Ground Water Monitoring System				
a	System Operation	NA	\$0	0	\$0
b	System Repair	LS	\$0	0	\$0
4.6	Site Security				
a	Lighting, signs, etc...	LS	\$0	0	\$0
b	Fencing and Gates	LS	\$200	6	\$1,200
4.7	Miscellaneous				
a					
b					
<b>Facility Operations and Maintenance Subtotal</b>					<b>\$4,800</b>

Total	\$22,800
10% Contingency	\$2,280
<b>Total Post-Closure Cost</b>	<b>\$25,080</b>

## 2 ACRE - LANDFILL CLOSURE COSTS

### Section 1.0 - Engineering

### PHASE B

(ESTIMATED DATE OF CLOSURE= 2007, AREA= 945,000 FT SQ)

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
1.1	Topographic Survey	LS	\$0	0	\$0
1.2	Boundary Survey for Closure	NA	\$0	0	\$0
1.3	Site Evaluation	NA	\$0	0	\$0
1.4	Development of Plans (Cover)	LS	\$0	0	\$0
1.5	Contract Administration - (Bidding and Award)	LA	\$250	1	\$250
1.6	Administrative Costs - (Certification of Final Cover and Closure Notice)	LS	\$0	0	\$0
1.7	Project Management - (Construction Observation and Testing)	LS	\$500	1	\$500
1.8	Monitor Well Consultant Cost	NA	\$0	0	\$0
1.9	Other Environmental Permit Costs	NA	\$0	0	\$0
<b>Engineering Subtotal</b>					<b>\$750</b>

### Section 2.0 - Construction

### PHASE B

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	<b>Final Cover System</b>				
2.1.1	Site Preparation/ Site Regrading	ACRE	\$1,000	2.0	\$2,000
2.1.2	Gas Collection Layer/Pipes	Included below			\$0
2.1.3	Low permeability Layer (Soil - If Applicable)				
a	Soil Purchase	NA			\$0
b	Soil Processing (load)	NA			\$0
c	Soil Transportation	NA			\$0
d	Soil Placement	NA			\$0
e	Soil Amendment (compact)	NA			\$0
2.1.4	Low permeability Layer (Synthetic - If Applicable)				
a	Geotextile	NA			\$0
b	GCL	SQ FT	\$0.00	0	\$0
c	Geomembrane (HDPE,PVC,LLDPE,etc...)	SQ FT	\$0.00	0	\$0
2.1.5	Drainage Layer (Soil - If Applicable)				
a	Geotextile	NA			\$0
b	Sand/Gravel	NA			\$0
2.1.6	Drainage Layer (Synthetic - If Applicable)				
a	Geotextile	NA			\$0
b	Geonet/Geocomposite	SQ FT	\$0.00	0	\$0
2.1.7	Erosion Protection Soil Layer				
a	Soil Purchase	NA			\$0
b	Soil Processing (load)	CY	\$0.50	4,840	\$2,420
c	Soil Transportation	CY	\$0.75	4,840	\$3,630
d	Soil Placement	CY	\$0.75	4,840	\$3,630
e	Soil Amendment (compact)	CY			\$0
2.1.8	Topsoil Layer				
a	Soil Purchase	NA			\$0
b	Soil Processing (load)	CY	\$0.50	1,613	\$807
c	Soil Transportation	CY	\$0.75	1,613	\$1,210
d	Soil Placement	CY	\$0.75	1,613	\$1,210
e	Soil Amendment	NA			\$0
2.1.9	Revegetation				
a	Seeding	ACRE	\$400	2.0	\$800
b	Fertilizing	ACRE	\$200	2.0	\$400
c	Mulch	ACRE	\$100	2.0	\$200
d	Tacifier	ACRE	\$100	2.0	\$200
2.2	<b>Stormwater Protection Structures</b>				
a	Culverts	NA			\$0
b	Pipes	NA			\$0
c	Ditches/Berms	FT	\$0	0	\$0
d	Detention Basins	NA			\$0
2.3	<b>Gas Collection System</b>				
a	Design	Included In Section 1.0			\$0
b	Additional Gas Collection Wells and Connection	EA	\$0	0	\$0
2.4	<b>Leachate Collection System</b>				
a	Design	NA			\$0
b	Additional Equipment / Installation	NA			\$0
2.5	<b>Groundwater Monitoring System</b>				
a	Monitor Well Installation	NA			\$0
b	Monitor Well Abandonment	NA			\$0
2.6	<b>Site Security</b>				
a	Lighting, signs, etc...	NA			\$0
b	Fencing and Gates	NA			\$0
2.7	<b>Miscellaneous</b>				
a	Performance Bonds	LS	\$0	0	\$0
b	Contract/Legal fees	LS	\$1,000	1	\$1,000
<b>Construction Subtotal</b>					<b>\$17,507</b>

LS - LUMP SUM  
 NA - NOT APPLICABLE  
 EA - EACH  
 CY - CUBIC YARD  
 FT - FEET

Total                    \$18,257  
 10% Contingency       \$1,826  
**Subtotal Closure Cost     \$20,082**

## MILFORD LANDFILL CLOSURE AND POST-CLOSURE COSTS

### 2 Acre Closure Costs

Section 1.0 - Engineering	<u>\$750</u>
Section 2.0 - Construction	\$17,507
10% Contingency	\$1,826
Subtotal	

\$20,082

### Landfill Post-Closure Costs (30 years)

\$25,080

### **TOTAL LANDFILL CLOSURE AND POST-CLOSURE COSTS**

\$45,162