APPENDIX I
AGENCY CORRESPONDENCE

- **U.S. Army Corps of Engineers**
- **U.S. Bureau of Reclamation**
- **U.S. Fish and Wildlife Service**
- **U.S. Department of Agriculture, Natural Resources Conservation Service**
- **Utah Department of Environmental Quality, Division of Air Quality**
- **Utah Department of Natural Resources, Division of Wildlife Resources**
- **Coalville City Floodplain Administrator**
- **Utah Department of Public Safety, Division of Emergency Services & Homeland Security**
- **U.S. Federal Emergency Management Agency**
- **Mountainland Association of Governments**
- **Utah State Historic Preservation Office**
- **Uintah and Ouray Ute Indian Reservation**
- **Shoshone Tribe of the Wind River Reservation**
- **Shoshone-Bannock Tribe**

Letter, Project Description and Figure

Sent to Each Agency for Comments

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

August 8, 2011

Mr./Ms. John/Jane Doe
Director of Management
555 Main Street
Anywhere, UT 84000

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear John/Jane,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 p 801 886 9052 f 801 886 9123 w www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

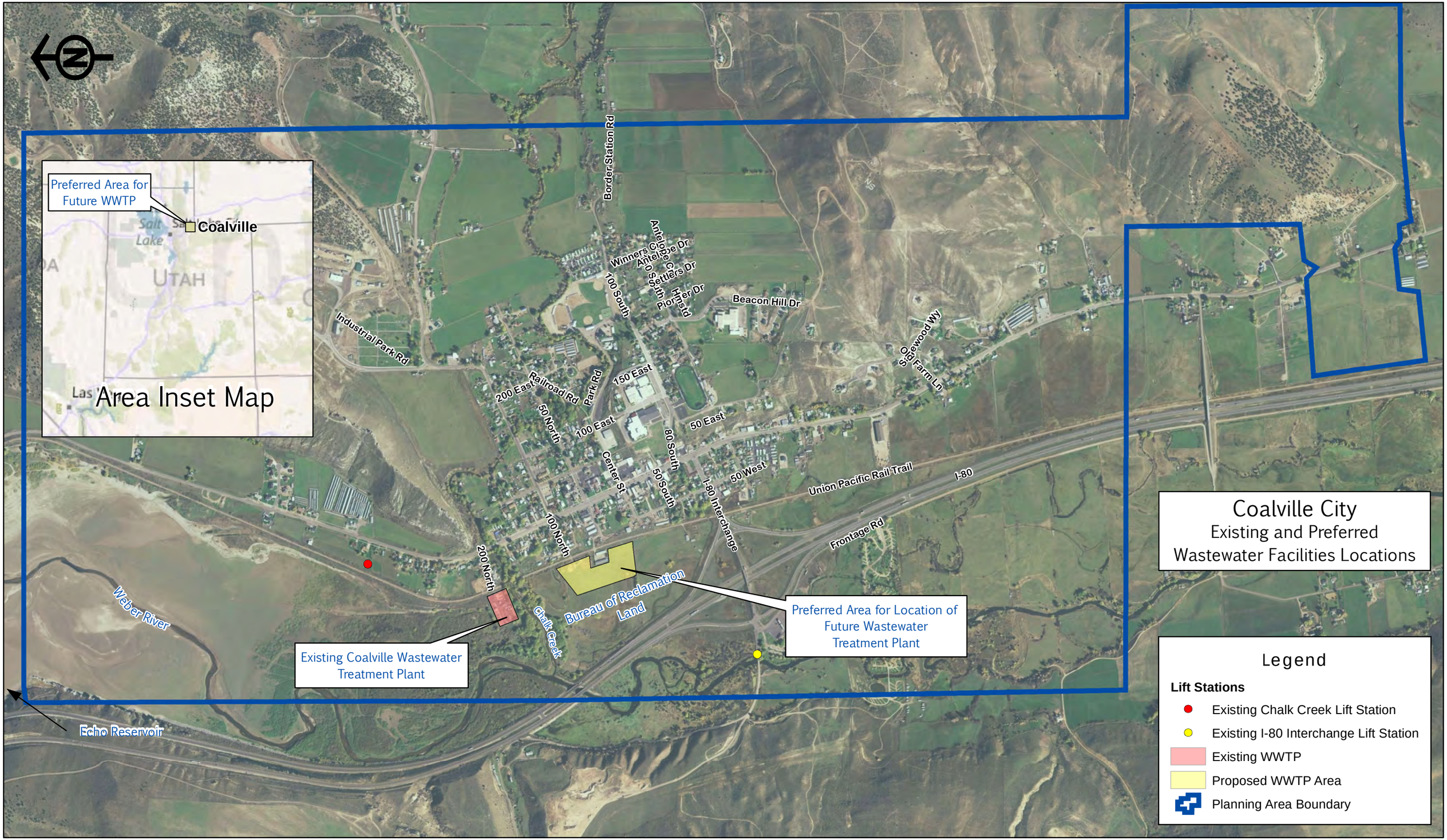
COALVILLE CITY
WASTEWATER FACILITIES PROJECT:
PROJECT DESCRIPTION

Coalville City's existing treatment facility is located on 2.3 acres of land owned by the Bureau of Reclamation and leased to the City. The lease expires in 2014 and the Bureau of Reclamation is not willing to renew the lease or sell the land to Coalville, thus forcing the relocation of the City's wastewater facilities. Additionally, many components of the City's existing wastewater facilities were constructed 50 years ago, and due to the facility's age, annual repair costs are increasing significantly. Finally, the Utah Division of Water Quality (DWQ) continually reviews the water quality of the state's lakes and rivers (Total Maximum Daily Load study), Echo Reservoir has been listed as an 'impaired water' (303d list) by the Utah DWQ and as such discharges to Echo, including Coalville's, may be subject to stricter discharge limits in the future for things such as phosphorus and nitrogen. To address concerns with the Bureau of Reclamation lease expiration, aging infrastructure and potentially more restrictive discharge limits, Coalville City has conducted a wastewater treatment facilities planning process to identify the best possible wastewater treatment alternative and to identify impacts and cost to the community.

Currently, Coalville City treats its wastewater using a conventional secondary process known as an oxidation ditch and the treated effluent is discharged under their Utah Pollutant Discharge Elimination System (UPDES) permit to nearby Chalk Creek. The proposed facility will discharge under a UPDES permit to an unnamed tributary located just upstream of the confluence of the Weber River and Chalk Creek. The City has felt that a continued discharge under a UPDES permit is the most appropriate and effective method of effluent disposal for their community. Because of the Total Maximum Daily Load study on Echo Reservoir (listed on Utah's 303d list), which Chalk Creek flows into, and the reservoir's impairment for phosphorus, the evaluated treatment options all included compliance with assumed stricter effluent discharge limits, including phosphorus and nitrogen. These evaluated treatment options included a no action alternative (oxidation ditch at the existing location), a conventional activated sludge treatment system with nutrient removal at a new site and a membrane bioreactor with nutrient removal at a new site.

The alternatives that involve construction of a new wastewater treatment plant at a new site involve construction on non-federal lands, at a site on the western edge of the City that is also south of the existing Wastewater Treatment Facility and Chalk Creek. This location is not on Federal land and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. These alternatives assume that the project will be constructed on land and right-of-way to be acquired by Coalville City.

The technologies that were evaluated in the alternatives included conventional activated sludge treatment with nutrient removal and a membrane bioreactor with nutrient removal. The conventional activated sludge treatment system with nutrient removal alternative includes site master planning for tertiary filtration, and biosolids holding and dewatering at the site. The membrane bioreactor with nutrient removal alternative also includes biosolids holding and dewatering at the site, filtration is inherent in the membrane aspect of the system. Both alternatives include screening units, aeration systems and disinfection, all working to produce an effluent that will be able to comply with future discharge limits to Chalk Creek. All mechanical elements will include redundant equipment to ensure reliable around-the-clock treatment. Biosolids produced will be aerobically digested, dewatered and hauled to an offsite location for composting, land application, or land filling. As part of these alternatives the collection system will be modified near the new site in order to convey wastewater to the new wastewater facility. These alternatives also include the repair and upgrade of an existing lift station. The conventional activated sludge and membrane bioreactor alternatives for the wastewater treatment facility will design for a 0.5 million gallons per day of wastewater and master planned to process 1.0 million gallons per day of wastewater. The new site identified in the alternatives could accommodate future growth in Coalville and the surrounding areas and could serve as a regional treatment facility for areas within the drainage.



J·U·B ENGINEERS, INC.

GATEWAY MAPPING INC.
a J-U-B Company

Date: 8/8/2011

Figure 1

U.S. Army Corps of Engineers

Request for Comments

August 8, 2011

Jason Gipson, Chief Nevada-Utah Regulatory Branch
U.S. Army Corps of Engineers
533 West 2600 South, Suite 150
Bountiful, UT 84010

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Jason,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

The U.S. Army Corps of Engineers (USACOE) had at one time been a potential funding source so they had quite a bit of input on the site, including a site visit and report, before the formal request for comments to agencies went out in August 2011. The USACOE indicated in August 2011 that they had no additional comments related to the project from those that had already been submitted and documented.

Christina Osborn

From: Cindy Gooch
Sent: Monday, May 02, 2011 9:22 AM
To: Christina Osborn
Subject: FW: Please fill in submittal dates (past or future) & return asap
Attachments: Utah Environmental & Wetlands Consultant List.docx

Cindy Gooch
JUB Engineers Inc.
466 North 900 West
Kaysville, Utah 84075
Ph 801/547-0393 ~ Fax 801/547-0397 ~ Cell 801/643-1761

-----Original Message-----
From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Monday, September 27, 2010 12:39 PM
To: Cindy Gooch
Subject: RE: Please fill in submittal dates (past or future) & return asap

The Army Corps is the "lead Federal Agency" (an environmental legal term).
Because all of these project are about 700 miles away from our district office, almost each and every EA is drafted by a local environmental consultant. We cant dictate to the city who to use (but Sacramento has their preferences). Firms that have prepared Corps 595 EAs include Frontier, JBR, & recently Rocky Mtn Environmental.

We do have an HTRW person (through the end of the year/thinking about
retiring) so as soon as the facilities are sited we'll get him on - or he might be able to come Thursday morning.

We do recommend a local firm/former non-profit that has a long relationship with the archeologist in Sacramento AND charges much less than any other local archeologist I've run on to.

Attached is the list of consultants. Please look it over then call me and I'll tell you what I know about the 3 that the Corps has worked with so far.

Thanks Again Cindy!

Scott

-----Original Message-----
From: Cindy Gooch [mailto:cgooch@jub.com]
Sent: Monday, September 27, 2010 11:36 AM
To: Stoddard, Scott SPK
Subject: RE: Please fill in submittal dates (past or future) & return asap

JUB will be the engineer 35% March 2011 Final December 2011 We were under the impression that Army Corp. does the environmental is that not correct?

Cindy L. Gooch

Funding Specialist /Urban Planner

J-U-B Engineers, Inc.

466 North 900 West

Kaysville, Utah 84037

Ph -801-547-0393 Cell- 801-643-1761

Fax 801-547-0397

From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Monday, September 27, 2010 10:28 AM
To: Charlie Skewes; Ryan Jolley; Brian Barton; Lance Nielsen; Milt Hanks; Cindy Gooch; dneilsen@sunrise-eng.com
Subject: Please fill in submittal dates (past or future) & return asap

Project	(Environmental Consultant(s)) Submittal Date (approx ok)	35% Design Submittal Date	Final Draft Plans/Specs
Highway 40 (Horrocks)		8 Oct 10	
"	"	8 Oct 10	
Cedarview	"	12 Nov 10	
Monticello (Rocky Mtn)			
Emery Town (JBR)			

Beaver Dam (HA&L, PPEG)

Eureka (undetermined)

Coalville (undetermined)

Thanks!

Scott Stoddard
Intermountain States Liaison
US Army Corps of Engineers
533 W 2600 S #150
Bountiful, UT 84010
Ph: 801.294.7033

Christina Osborn

From: Cindy Gooch
Sent: Monday, May 02, 2011 9:20 AM
To: Christina Osborn
Subject: FW: New 595 Project to Coordinate - Coalville Wastewater

Cindy Gooch
JUB Engineers Inc.
466 North 900 West
Kaysville, Utah 84075
Ph 801/547-0393 ~ Fax 801/547-0397 ~ Cell 801/643-1761

-----Original Message-----
From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Wednesday, September 29, 2010 7:47 AM
To: Daren Rasmussen; Cindy Gooch; Jencks, Hollis G
Cc: Dave Marble
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater

Thanks very much Daren - We appreciate your quick response -

Thanks Again!

Scott

-----Original Message-----
From: Daren Rasmussen [mailto:darenrasmussen@utah.gov]
Sent: Wednesday, September 29, 2010 7:45 AM
To: cgooch@jub.com; Jencks, Hollis G; Stoddard, Scott SPK
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater

I have reviewed the information/siteplans provided regarding the 595 Coalville Wastewater Treatment Plant Project and it is determined that no Stream Alteration Permit would be required.
=Daren

- - D a r e n R a s m u s s e n , PG, Stream Alterations & Dam Safety, STATE ENGINEER'S OFFICE
darenrasmussen@utah.gov / ph.801-538-7377 / fax
801-538-7442
1594 W North Temple, Suite 220, PO Box 146300, Salt Lake City, Utah
84114-6300
^^~~<><~~~<><~~~~~~~~~~~~<><~~~~~~
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>>> "Stoddard, Scott SPK" <Scott.Stoddard@usace.army.mil> 09/17/10 2:48
~~~

>>> PM >>>
Thanks Hollis-

Cindy - how far along is the design? Will there be any project features in the SW corner that Hollis is referring to.

If there are proposed project features that can't be re-sited then he has offered to make a site visit this fall to see what will be needed by way of WL delineation/permitting.

Daren: Any stream alt/GP-40 feedback?

Thanks Again ALL!

Scott

-----Original Message-----
From: Jencks, Hollis G
Sent: Friday, September 17, 2010 8:51 AM
To: 'Cindy Gooch'; Stoddard, Scott SPK; Daren Rasmussen
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Scott-

Looks like there maybe some wetland issues in the southwest corner. A wetland delineation might be required depending on the extent of the wetland area. I am going to have to make a site visit to verify if a delineation is neccessary.

Thanks
Hollis

-----Original Message-----
From: Cindy Gooch [mailto:cgooch@jub.com]
Sent: Friday, September 17, 2010 8:39 AM
To: Stoddard, Scott SPK; Daren Rasmussen; Jencks, Hollis G
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Here are the maps of the property and the site plan. If you have any question let us know. I also have attached a map that shows the current location of the sewer plant and the alternative site as they are located within the city.

Cindy L. Gooch

Funding Specialist /Urban Planner

J-U-B Engineers, Inc.

466 North 900 West

Kaysville, Utah 84037

Ph -801-547-0393 Cell- 801-643-1761

Fax 801-547-0397

From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Wednesday, September 15, 2010 8:04 PM
To: Daren Rasmussen; Jencks, Hollis G
Cc: Cindy Gooch
Subject: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Daren/Hollis:

The city's engineer/designer JUB has indicated this project will all be in upland. They are generating an aerial now with the plant and all project features superimposed and will provide to you as soon as possible. Please respond as appropriate via email or letter at your earliest convenience.
(Cindy Gooch is the designated city's engineer and poc for this project - please feel free to contact her with any questions you may have).

Thanks!

Scott Stoddard
Intermountain States Liaison
US Army Corps of Engineers
533 W 2600 S #150
Bountiful, UT 84010
Ph: 801.294.7033

Christina Osborn

From: Cindy Gooch
Sent: Monday, May 02, 2011 9:20 AM
To: Christina Osborn
Subject: FW: New 595 Project to Coordinate - Coalville Waste water Treatment Plant
Attachments: HollisJenks; CarlCole

Cindy Gooch
JUB Engineers Inc.
466 North 900 West
Kaysville, Utah 84075
Ph 801/547-0393 ~ Fax 801/547-0397 ~ Cell 801/643-1761

-----Original Message-----
From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Thursday, September 30, 2010 11:38 AM
To: Cindy Gooch
Cc: Trevor Lindley; James Goodley; Robert Whiteley; Sheldon Smith; Mayor Schmidt
Subject: RE: New 595 Project to Coordinate - Coalville Waste water Treatment Plant

Thanks to all involved this morning.

Wetlands: Looks like the easiest and best way to avoid the small wetland area in the southeast corner will be to just pull back the fence to the road in that corner. Should be easy!

Hazardous and Toxic Review: Strongly recommend that the FIRST item of business once the property is acquired is to remove the old , tanks, barrels the old building(s) and everything there - that most of us would call "junk".
All of this could either be considered by some to be or contain hazardous and toxic waste. (Mayor I think you told me this would be the first "to do"
after the property is acquired).

Attached are Carl's and Hollis' contact info as requested

Thanks Again!

Scott Stoddard
Corps of Engineers
801.294.7033x1

-----Original Message-----
From: Cindy Gooch [mailto:cgooch@jub.com]
Sent: Friday, September 24, 2010 9:03 AM
To: Stoddard, Scott SPK; Jencks, Hollis G
Cc: Trevor Lindley; James Goodley; Robert Whiteley; Sheldon Smith; Mayor Schmidt
Subject: RE: New 595 Project to Coordinate - Coalville Waste water Treatment Plant

The 30th at 9:00 will work for everyone including the landowner. So it is a go. I think that Scott Hollis Should meet Jim and Robert at the Coalville City Building just before 9:00 am then they can drive you to the property.
Let's plan on that!

Cindy L. Gooch
Funding Specialist /Urban Planner
J-U-B Engineers, Inc.
466 North 900 West
Kaysville, Utah 84037
Ph -801-547-0393 Cell- 801-643-1761
Fax 801-547-0397

-----Original Message-----
From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Wednesday, September 22, 2010 12:22 PM
To: Cindy Gooch; Jencks, Hollis G
Cc: Trevor Lindley; James Goodley; Robert Whiteley; Sheldon Smith; Mayor Schmidt
Subject: RE: New 595 Project to Coordinate - Coalville Waste water Treatment Plant

Thanks Cindy:

Hollis is tied up 27-29 and I have another meeting on the 28th. Is there a way to make next Thursday morning the 30th work for most?

Thanks Again!

Scott

-----Original Message-----
From: Cindy Gooch [mailto:cgooch@jub.com]
Sent: Wednesday, September 22, 2010 12:16 PM
To: Stoddard, Scott SPK; Jencks, Hollis G
Cc: Trevor Lindley; James Goodley; Robert Whiteley; Sheldon Smith; Mayor Schmidt
Subject: RE: New 595 Project to Coordinate - Coalville Waste water Treatment Plant

Scott and Hollis, the landowner indicated that he would allow us to do a site visit however he would like to be present. I indicated that it could be the 27th and he would like it to be in the morning or later in the afternoon.
Could you let me know if the 27th will work for you so that I can let the landowner know.

Thanks

Cindy L. Gooch
Funding Specialist /Urban Planner
J-U-B Engineers, Inc.
466 North 900 West
Kaysville, Utah 84037
Ph -801-547-0393 Cell- 801-643-1761
Fax 801-547-0397
-----Original Message-----
From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Friday, September 17, 2010 3:32 PM
To: Cindy Gooch; Jencks, Hollis G

Subject: RE: New 595 Project to Coordinate - Coalville Waste water Treatment Plant

Thanks Cindy - Hollis will give you a call - the best time for him will be the week of the 27th.

Thanks Again To You Both!

Scott

-----Original Message-----
From: Cindy Gooch [mailto:cgooch@jub.com]
Sent: Friday, September 17, 2010 3:22 PM
To: Stoddard, Scott SPK
Subject: Re: New 595 Project to Coordinate - Coalville Waste water Treatment Plant

That would be great! We could make arrangements any time

Sent using BlackBerry

----- Original Message -----
From: Stoddard, Scott SPK <Scott.Stoddard@usace.army.mil>
To: Cindy Gooch
Cc: Jencks, Hollis G <Hollis.G.Jencks@usace.army.mil>
Sent: Fri Sep 17 15:12:50 2010
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Thanks Cindy but that's precisely why I would feel better about having Hollis do a site walk - then you will know what area to avoid.

Thanks Again!

Scott

-----Original Message-----
From: Cindy Gooch [mailto:cgooch@jub.com]
Sent: Friday, September 17, 2010 3:11 PM
To: Stoddard, Scott SPK; Jencks, Hollis G; Daren Rasmussen
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Scott it is so preliminary that we can do anything that needs to be done!

Cindy L. Gooch
Funding Specialist /Urban Planner
J-U-B Engineers, Inc.
466 North 900 West
Kaysville, Utah 84037
Ph -801-547-0393 Cell- 801-643-1761
Fax 801-547-0397
-----Original Message-----
From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Friday, September 17, 2010 2:48 PM
To: Jencks, Hollis G; Cindy Gooch; Daren Rasmussen

Subject: RE: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Thanks Hollis-

Cindy - how far along is the design? Will there be any project features in the SW corner that Hollis is referring to.

If there are proposed project features that can't be re-sited then he has offered to make a site visit this fall to see what will be needed by way of WL delineation/permitting.

Daren: Any stream alt/GP-40 feedback?

Thanks Again ALL!

Scott

-----Original Message-----
From: Jencks, Hollis G
Sent: Friday, September 17, 2010 8:51 AM
To: 'Cindy Gooch'; Stoddard, Scott SPK; Daren Rasmussen
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Scott-

Looks like there maybe some wetland issues in the southwest corner. A wetland delineation might be required depending on the extent of the wetland area. I am going to have to make a site visit to verify if a delineation is neccessary.

Thanks
Hollis

-----Original Message-----
From: Cindy Gooch [mailto:cgooch@jub.com]
Sent: Friday, September 17, 2010 8:39 AM
To: Stoddard, Scott SPK; Daren Rasmussen; Jencks, Hollis G
Subject: RE: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Here are the maps of the property and the site plan. If you have any question let us know. I also have attached a map that shows the current location of the sewer plant and the alternative site as they are located within the city.

Cindy L. Gooch

Funding Specialist /Urban Planner

J-U-B Engineers, Inc.

466 North 900 West

Kaysville, Utah 84037

Ph -801-547-0393 Cell- 801-643-1761

Fax 801-547-0397

From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Wednesday, September 15, 2010 8:04 PM
To: Daren Rasmussen; Jencks, Hollis G
Cc: Cindy Gooch
Subject: New 595 Project to Coordinate - Coalville Wastewater Treatment Plant

Daren/Hollis:

The city's engineer/designer JUB has indicated this project will all be in upland. They are generating an aerial now with the plant and all project features superimposed and will provide to you as soon as possible. Please respond as appropriate via email or letter at your earliest convenience.
(Cindy Gooch is the designated city's engineer and poc for this project
- please feel free to contact her with any questions you may have).

Thanks!

Scott Stoddard
Intermountain States Liaison
US Army Corps of Engineers
533 W 2600 S #150
Bountiful, UT 84010
Ph: 801.294.7033

Christina Osborn

From: Cindy Gooch
Sent: Monday, May 02, 2011 9:20 AM
To: Christina Osborn
Subject: FW: Coalville
Attachments: Coalville HTRW Site Inspection.docx

Cindy Gooch
JUB Engineers Inc.
466 North 900 West
Kaysville, Utah 84075
Ph 801/547-0393 ~ Fax 801/547-0397 ~ Cell 801/643-1761

-----Original Message-----
From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Monday, October 04, 2010 3:39 PM
To: Cindy Gooch
Subject: FW: Coalville

Please read below and the attached draft and then give me a call.

Thanks Again Cindy!

Scott

-----Original Message-----
From: Cole, Carl E SPK
Sent: Monday, October 04, 2010 2:16 PM
To: Stoddard, Scott SPK
Subject: Coalville

Hi Scott,

I have been pondering what to say about the Coalville site since our visit. I have tried several different ways of wording the conclusions and finally decided to send a draft with two potential conclusions. I am not comfortable with saying the site is "cleared" for construction, because I should not be the one making that decision. I want to let you folks know that there is some potential for petroleum contamination of the site. If we elect to proceed, we may see some contamination in excavated soil, and there could be some petroleum contamination in the groundwater.

Another conclusion could be that since there is no documented evidence of a spill, then we could assume the site to be uncontaminated.

I think that if I were preparing a Phase I Environmental Assessment that I would provide the report to the potential buyer, and they would decide whether or not to purchase. Or they might decide to perform an investigation to determine if there have been any spills. I have documented what I observed and recorded.

Please take a look at the attachment and we can discuss.

Regards,

Carl E. Cole

Geologist

USACE-SPK-ED-GG

Cell Phone (801) 971-1704

Desk Phone (435)-833-3341

Fax (435) 833-2839

WRDA Section 595 HTRW Survey
Project: Proposed Sewage Treatment Facility
Coalville, Utah

1. Project: This project was authorized under Section 595, Environmental Infrastructure, of the Water Resources Development Act of 1999 as amended, to construct a sewage treatment project at Coalville, Utah. A Project Partnership Agreement was signed by the Mayor of Coalville, Utah and the District Engineer for Sacramento District Corps of Engineers on 1 September 2010. JUB Engineers, Inc was selected by the sponsor to perform the design and construction management. Funding for the project was acquired through the Sacramento District of the U.S. Army Corps of Engineers, Sacramento, CA. The Project Manager and POC for the project is Mr. Scott Stoddard of the Intermountain Office located in Bountiful, Utah.

2. Location, Setting and Description of the Site: Coalville is located in Summit County in northeastern Utah. It is within the Rocky Mountain physiographic province. The town is located just east of Interstate Highway 80, approximately 45 miles northeast of Salt Lake City.

As shown on Attachment 1, the proposed project includes a sewage treatment facility to be located at the western edge of Coalville.

3. Records Review: A review of the USEPA Enforcement and Compliance History Online (ECHO) database and the Utah Department of Environmental Quality (DEQ) database revealed no documented hazardous releases in the area of the proposed treatment facility.

4. Site Reconnaissance: On 29 September, 2010, the undersigned performed an HTRW site reconnaissance of the proposed project in the company of the following:

Mr. Duane Schmidt	Coalville City Mayor
Mr. Sheldon Smith	Coalville City Attorney
Mr. Scott Stoddard	USACE, Sacramento Project Manager
Mr. Hollis Jenks	USACE, Regulatory Project Manager
Mr. Dan Blonquist	Property Owner
Mr. James Goodley	JUB Engineers
Mr. Robert Whiteley	JUB Engineers

Mr. James Goodley provided drawings and location information for the project.

The entire project was inspected on foot.

It was apparent that most of the site has only been used for agricultural purposes.

At the middle of the eastern edge of the property an auto repair shop and associated storage units occupies the ground. No HTRW released were visible at the surface. Mr. Blonquist stated that in previous years, this area was occupied by fuel storage tanks belonging to the abandoned railroad adjacent to the eastern edge of the property. The railroad grade is now occupied by a recreational trail.

An old shed was observed in the northeastern part of the property. Numerous old fuel tanks were stored around the shed. Most of the tanks appeared to be fuel tanks from vehicles and farm equipment. One tank appeared to be an oil tank. One LPG type tank was observed. A partially full 55 gallon drum was labeled Dexron III & Mercon ATF. Several buckets of calcium hypochlorite were stored at the front of the shed. A large steel storage tank of several hundred gallons capacity was stored at the back of the shed. None of the containers appeared to be leaking and no stains or odors were apparent. However, part of the area was covered by grass.

5. Conclusion: The records review was performed for this site on 23 September 2010 and a site inspection was performed on 29 September 2010. The record review revealed no potential HTRW problems. No staining or odors were evident near the old shed, the auto repair shop or at the old fuel tank site. However before purchasing the property, these containers should be removed and a thorough inspection of the ground should be performed. A shovel could be used to clear grass and dig down several inches to see if there is any staining or odor. The historical tank sites have the potential for having had spills in the past. This could have had the effect of contaminating groundwater at the site.

Or

Because the site has the potential for subsurface contamination, I recommend that a Phase I Environmental Site Assessment be performed in accordance with ASTM 1527-05.

Carl E. Cole
Geologist
US Army Corps of Engineers, Sacramento

ATTACHMENT 1

PHOTOGRAPHS & PROJECT MAPS

Photo 1 Looking northeast from southern end of site. Auto repair shop shown near middle of photo

Photo 2 Looking southwest from northeast corner of site

Photo 3 Looking southeast at old shed with tanks etc. in area

Christina Osborn

From: Cindy Gooch
Sent: Monday, May 02, 2011 9:25 AM
To: Christina Osborn
Subject: FW: Updated Plan for Reg Review

Cindy Gooch
JUB Engineers Inc.
466 North 900 West
Kaysville, Utah 84075
Ph 801/547-0393 ~ Fax 801/547-0397 ~ Cell 801/643-1761

From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Thursday, October 14, 2010 6:54 PM
To: Cindy Gooch
Subject: Updated Plan for Reg Review

Hi Cindy:

As I discussed with the guys in the field, it seemed like all we need to do is to move the south fence line a little north - to the south edge of the utility roadway and we will be clear of the wetlands in the se corner of the property. Please get that revised drawing to Hollis (& cc me so I can remind him) to take action on it.

Thanks Again Cindy!

PS – Please advise me about what you found on your HTRW visit to the site when you can.

Scott Stoddard
Intermountain States Liaison
US Army Corps of Engineers
533 W 2600 S #150
Bountiful, UT 84010
Ph: 801.294.7033

Christina Osborn

From: Cindy Gooch
Sent: Monday, May 02, 2011 9:24 AM
To: Christina Osborn
Subject: FW: "20 Questions" for 595 Eas
Attachments: Project Design Data Requirements for a 595 EA.doc

Cindy Gooch
JUB Engineers Inc.
466 North 900 West
Kaysville, Utah 84075
Ph 801/547-0393 ~ Fax 801/547-0397 ~ Cell 801/643-1761

From: Stoddard, Scott SPK [mailto:Scott.Stoddard@usace.army.mil]
Sent: Tuesday, October 26, 2010 8:46 AM
To: Charlie Skewes; Judy Imlay; Bill Bigelow; Lance Nielsen; Ryan Jolley; Megan Robinson; Jeff Albrecht; dnielsen@sunrise-eng.com; Cindy Gooch; Jeremey A. LeBeau; dwenger@frontiercorp.net
Cc: Adams, Stefanie L SPK; Montag, Melissa L SPK; Stevenson, Lynne L SPK; Hucks, Creg D SPK; Powers, James C SPK
Subject: "20 Questions" for 595 Eas

Hi All:

I hope everyone is

If each of you Project Design Engineers can provide the information identified on the attached data sheet to your respective environmental consultants in the very near future , that will help them immensely in preparing the EAs (& Environmental Consultants, I would suggest sending a copy of the completed checklist to Sacramento along with your draft EA). That way EVERYONE is clear as to what each project is and what it consists of (as well as what it isn't). I believe that a little time up front will save a LOT of time and frustration by the environmental folks playing "20 questions" about the project – both here and in Sacramento.

PS – the questions are written specific to a levee project but all of you astute project designers will have no trouble adapting them to your water supply and wastewater projects.

Thanks Again To All!

Scott Stoddard
Intermountain States Liaison
US Army Corps of Engineers
533 W 2600 S #150
Bountiful, UT 84010
Ph: 801.294.7033

Christina Osborn

From: Jencks, Hollis G SPK <Hollis.G.Jencks@usace.army.mil>
Sent: Thursday, July 07, 2011 8:11 AM
To: Trevor Lindley
Cc: Christina Osborn; Cindy Gooch; Stoddard, Scott SPK
Subject: RE: Coalville Site Visit Report
Attachments: Coalville SitePlan New WWTF.pdf

Trevor-

It looks like the flood protection berm and outfall structure would impact the wetland area in the southwest corner. This site plan would require a Section 404 Nationwide Permit verification from this office. A permit would also require a wetland delineation and cultural resource inventory. In order to qualify for a No Permit required verification the berm and outfall structure would need to be removed from the wetland area. I suggest realigning the berm around the wetland and relocating the outfall structure to avoid permitting.

If you have any questions please give me a call,

Hollis Jencks
Project Manager, Utah Regulatory Office
533 West 2600 South, Suite 150
Bountiful, Utah 84010
Phone: 801-295-8380 X 18
Fax: 801-295-8842

-----Original Message-----
From: Trevor Lindley [mailto:tlindley@jub.com]
Sent: Thursday, June 23, 2011 12:03 PM
To: Jencks, Hollis G SPK
Cc: Christina Osborn; Cindy Gooch; Stoddard, Scott SPK
Subject: Coalville Site Visit Report

Hollis,

I work with Cindy Gooch here in our Kaysville Utah office. Recall last fall Coalville City UT was a candidate for ACOE 595 funding. That money eventually was not available and we are not funded by 595 at this time.
However, we are pursuing other funding including SRF and USDA-RD monies. As part of both of those funding packages we are now doing the environmental review for the site; we are following USDA guidelines and they will be the lead agency reviewing the document and potentially issuing the FONSI.

We feel it would be helpful to our environmental review to have ACOE formalize the site visit observations from the ACOE's site visit to Coalville in September of 2010. I believe Scott Stoddard has mentioned this request.
Attached is a figure that could help in your site observation report.

Thanks in advance,

Trevor R. Lindley, P.E.

Project Manager

Water & Wastewater

J-U-B ENGINEERS, Inc.

466 N. 900 W.

Kaysville, UT 84037

p | 801 547 0393 c | 801 725 5641 e | tlindley@jub.com <mailto:tlindley@jub.com>

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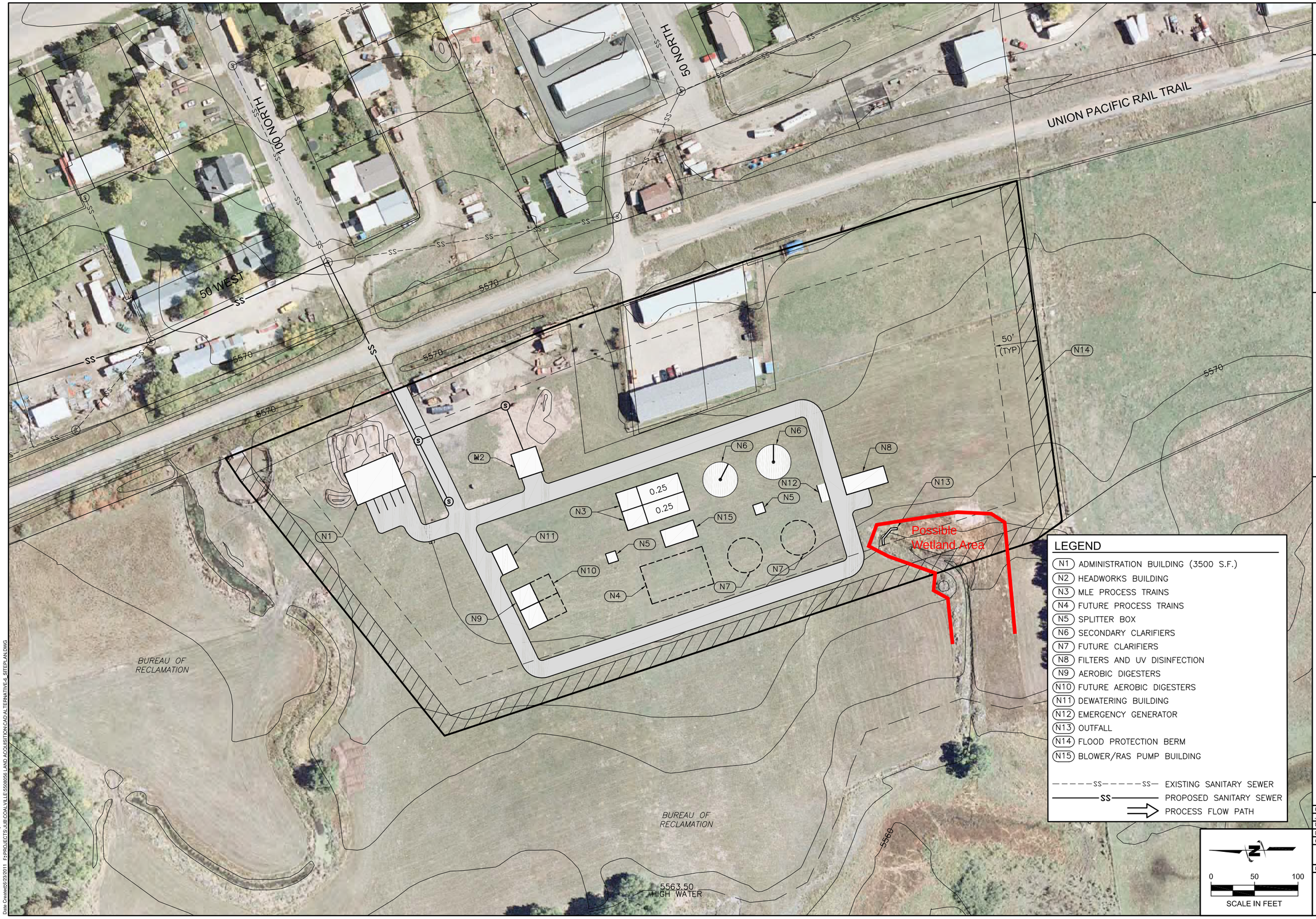


LEGEND

- (N1) ADMINISTRATION BUILDING (3500 S.F.)
- (N2) HEADWORKS BUILDING
- (N3) MLE PROCESS TRAINS
- (N4) FUTURE PROCESS TRAINS
- (N5) SPLITTER BOX
- (N6) SECONDARY CLARIFIERS
- (N7) FUTURE CLARIFIERS
- (N8) FILTERS AND UV DISINFECTION
- (N9) AEROBIC DIGESTERS
- (N10) FUTURE AEROBIC DIGESTERS
- (N11) DEWATERING BUILDING
- (N12) EMERGENCY GENERATOR
- (N13) OUTFALL
- (N14) FLOOD PROTECTION BERM
- (N15) BLOWER/RAS PUMP BUILDING

- SS EXISTING SANITARY SEWER
- SS PROPOSED SANITARY SEWER
- PROCESS FLOW PATH

0 50 100
SCALE IN FEET

J-U-B ENGINEERS, INC.
466 North 900 West
Kaysville, Utah 84037
Phone: 801.547.0393
Fax: 801.547.0397
www.jub.com

PRELIMINARY PLANS

NOT FOR CONSTRUCTION

NO.	REVISION	BY	APP'D	DATE

PROPOSED WASTEWATER TREATMENT FACILITY COALVILLE CITY CORPORATION

FACILITY PLAN UPDATE
ALTERNATIVE 6 - CONVENTIONAL ACTIVATED SLUDGE AT NEW SITE
CONCEPTUAL SITE PLAN

FILE: ALTERNATIVE-6_SITEPLAN
JUB PROJ. #:
DRAWN BY: JDM
DESIGN BY: JJG
CHECKED BY:
ONE INCH
AT FULL SIZE. IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 6/23/2011

SHEET NUMBER:
1

Plot Date:6/23/2011 10:56 AM Plotted By: Jason Miller
Date Created:6/23/2011 F:\PROJECTS\J-U-B\COALVILLE\35080\6 LAND ACQUISITION\CAD\ALTERNATIVE\6_SITEPLAN.DWG

Bureau of Reclamation

Request for Comments

August 8, 2011

Curtis Pledger, Area Manager
U.S. Bureau of Reclamation
302 East 1860 South
Provo, UT 84606-7317

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Curtis,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

United States Department of the Interior

BUREAU OF RECLAMATION
Upper Colorado Region
Provo Area Office
302 East 1860 South
Provo, UT 84606-7317

IN REPLY REFER TO:
PRO-770
ENV-6.00

SEP 12 2011

Ms. Christina Osborn
J-U-B Engineers, Inc.
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT 84119

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project Request for Comments – Weber River Project, Utah

Dear Ms. Osborn:

This letter is in response to your August 8, 2011, letter requesting comments from the Bureau of Reclamation on Coalville City's proposal to construct a new wastewater treatment facility on private land within city limits.

Reclamation understands that with the construction of the new facility Coalville City would achieve an efficient treatment of wastewater which would comply with current and projected Utah Pollutant Discharge Elimination System permitting requirements. The proposed plant would enhance the quality of the Weber River by reducing phosphorous and nitrogen in the river.

Reclamation supports the construction of the proposed wastewater treatment facility. Reclamation also looks forward to working with the city of Coalville in the decommissioning process of the old wastewater treatment facility currently located on Reclamation land.

If you have further questions regarding this matter, please contact Mr. Jeffrey D'Agostino at 801-379-1161or Mr. David Krueger at 801-379-1083.

Sincerely,

CURTIS A. PLEDGER

Curtis A. Pledger
Area Manager

cc: Honorable Duane S. Schmidt
Mayor of Coalville City
P.O. Box 188
Coalville, UT 84017

Emails

From: D'Agostino, Jeffrey M [mailto:jdagostino@usbr.gov]
Sent: Thursday, September 15, 2011 11:31 AM
To: Christina Osborn
Subject:

Here is the Coalville City Letter , I spoke with Dave, he is awaiting comments and signature on his letter, should be going out today.

From: Krueger, David [mailto:DKrueger@usbr.gov]
Sent: Wednesday, August 10, 2011 5:43 PM
To: Trevor Lindley; Pledger, Curt
Cc: Cindy Gooch; Christina Osborn; Robert Whiteley
Subject: RE: Coalville Wastewater Treatment Plant Status

Trevor:

I am working on the response to that first letter and should have it completed this week. We'll look forward to this next letter and get comments back to you quickly. Thanks.

Dave K.

From: Trevor Lindley
Sent: Wednesday, August 10, 2011 4:58 PM
To: Pledger, Curt (CPledger@usbr.gov); Krueger, David (DKrueger@usbr.gov)
Cc: Cindy Gooch; Christina Osborn; Robert Whiteley
Subject: Coalville Wastewater Treatment Plant Status

Curt and David,

We just wanted to give you a quick update on Coalville and the status of the WWTP.

- It appears the City and landowner have agreed to terms on sale of property for the new facility. The parcel is non-Federal across Chalk Creek to the south of the existing site and just adjacent to the rail trail (west of rail trail).
- The City sent to Reclamation (attention David Kruger) a letter (dated June 6, 2011) that was required as part of DWQ funding package. The letter asked for Reclamation to confirm there would not be onerous decommissioning requirements from Reclamation. The City pretty much intends to clean out and disinfect the tanks and salvage what they want and leave the remainder as they walk away. Recall the funding from the Water Quality Board was contingent upon not spending Board money on the old site. The City is still looking for a Reclamation response to that letter to meet the requirements of the funding package.
- Just this week another letter was sent to Curt's attention regarding the proposed facility. The letter is a form letter that was sent to about a dozen agencies as part of the NEPA process. It is asking Reclamation to chime in on any concerns you have about the proposed site. We would

also ask that Reclamation respond to that letter as soon as possible. We have given all the agencies 30 days for the NEPA letter.

Once we have all the NEPA response letters back we can finish up the environmental document for the new site and new facility and see if USDA is willing to fund the other portion of the project.

Thanks and feel free to call with any questions.

Trevor R. Lindley, P.E.
Project Manager
Water & Wastewater
J-U-B ENGINEERS, Inc.
466 N. 900 W.
Kaysville, UT 84037
p | 801 547 0393 c | 801 725 5641 e | tlindley@jub.com

U.S. Fish and Wildlife Service (USFWS)

Request for Comments

August 8, 2011

Larry Crist, Project Leader
U.S. Fish & Wildlife Service
2369 West Orton Circle, Suite 50
West Valley City, UT 84119

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Larry,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

Christina Osborn

Subject: Coalville Wastewater BA - Response to USFWS comments in regard to the Bald Eagle
Attachments: 2- Project Action Area Map.pdf

From: Vincent Barthels
Sent: Wednesday, March 07, 2012 4:42 PM
To: jim.bulkeley@ut.usda.gov; Amy_Defreese@fws.gov
Cc: Trevor Lindley
Subject: RE: Coalville Wastewater BA - Response to USFWS comments in regard to the Bald Eagle

Mr. Bulkeley and Ms. Defreese:

JUB acknowledges the USFWS comments (below) in regard to the recently submitted Biological Assessment (BA) for the proposed Coalville Wastewater Treatment Plant. Based on these comments below, we plan to conduct a pre-construction bald eagle nesting survey prior to commencing any construction activities. This best management practice will be carried forward as an environmental commitment within the Environmental Assessment document and the subsequent FONSI.

Per a recent phone conversation with Ms. Defreese that occurred today, we understand and agree that the defined "bald eagle nesting survey study area" should extend a ½-mile in radius outward from the anticipated construction footprint; and, exclude the following three (3) areas: (1) any area east of Main Street; (2) any area south of the Interstate 80 (I-80) Interchange; and, (3) any area west of I-80. Please see the attached Project Action Area Map (*note: North is toward the left*), which illustrates the three (3) aforementioned landmarks that are associated with the "excluded areas."

The results of the nesting survey will be documented in a brief letter, to supplement the original BA, and will be submitted to USDA and USFWS. Should either of you have any further questions or concerns related to the BA or the planned pre-construction bald eagle nesting survey, please do not hesitate to contact me directly.

Thank you,

Vincent Barthels
Biologist

JUB Engineers Inc.
W. 422 Riverside, Suite 304
Spokane, WA 99201

vbarthels@jub.com

(509) 458-3727 (Office)
(509) 951-9564 (Cell)
(509) 458-3762 (Fax)

From: Amy_Defreese@fws.gov [mailto:Amy_Defreese@fws.gov]
Sent: Monday, March 05, 2012 4:48 PM

To: Bulkeley, Jim - RD, Salt Lake City, UT
Subject: Coalville Wastewater BA

Dear Jim,
In response to your email correspondence dated February 16, 2012, I have reviewed the submitted Biological Assessment for the Coalville Wastewater project in Summit County, Utah. We agree with your determination of "no effect" for listed species under the Endangered Species Act (ESA), including black-footed ferret, bonytail, Canada lynx, Colorado pikeminnow, humpback chub, and razorback sucker.

JUB Engineers evaluated project effects to non-listed species: greater sage-grouse, least chub, yellow-billed cuckoo, bald eagle, bluehead sucker, and Bonneville cutthroat trout. While not required for evaluation under ESA, we appreciate the disclosure of potential effects to these species. Please be aware that although bald eagle is not listed under the ESA, it is protected under the Bald and Golden Eagle Protection Act. Based on the information disclosed in your Biological Assessment, we understand that project construction, maintenance, or operation will not disturb riparian areas where eagles may nest or roost. Eagles, however, can be disturbed by construction adjacent to, but outside of riparian areas. In the absence of nest or roost surveys, we cannot concur that the project will not affect nesting or roosting bald eagles. We therefore recommend that Coalville City either 1) avoid construction during the nesting and roosting period for bald eagles (November - August) OR 2) conduct pre-construction surveys in the adjacent riparian corridor. More specific protocol is available from the attached document, *Utah Field Office Guidelines for RaptorProtection from Human and Land Use Disturbances* (2002).

Please feel free to contact me with any questions you may have.

Sincerely,
Amy Defreese

Amy Defreese, Ecologist
U.S. Fish and Wildlife Service
Utah Field Office
2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119

Office: (801) 975-3330 x 128
Fax: (801) 975-3331
Email: amy_defreese@fws.gov

(See attached file: Raptor Guidelines (v March 20, 2002).pdf)

Christina Osborn

Subject: FW: Coalville Wastewater BA
Attachments: Raptor Guidelines (v March 20, 2002).pdf

Importance: High

From: Bulkeley, Jim - RD, Salt Lake City, UT [mailto:Jim.Bulkeley@ut.usda.gov]
Sent: Tuesday, March 06, 2012 8:03 AM
To: Trevor Lindley
Cc: Meyer, Debra - RD, Salt Lake City, UT; Ivie, Amy - RD, Provo, UT
Subject: FW: Coalville Wastewater BA

FYI -

From: Amy_Defreese@fws.gov [mailto:Amy_Defreese@fws.gov]
Sent: Monday, March 05, 2012 4:48 PM
To: Bulkeley, Jim - RD, Salt Lake City, UT
Subject: Coalville Wastewater BA

Dear Jim,
In response to your email correspondence dated February 16, 2012, I have reviewed the submitted Biological Assessment for the Coalville Wastewater project in Summit County, Utah. We agree with your determination of "no effect" for listed species under the Endangered Species Act (ESA), including black-footed ferret, bonytail, Canada lynx, Colorado pikeminnow, humpback chub, and razorback sucker.

JUB Engineers evaluated project effects to non-listed species: greater sage-grouse, least chub, yellow-billed cuckoo, bald eagle, bluehead sucker, and Bonneville cutthroat trout. While not required for evaluation under ESA, we appreciate the disclosure of potential effects to these species. Please be aware that although bald eagle is not listed under the ESA, it is protected under the Bald and Golden Eagle Protection Act. Based on the information disclosed in your Biological Assessment, we understand that project construction, maintenance, or operation will not disturb riparian areas where eagles may nest or roost. Eagles, however, can be disturbed by construction adjacent to, but outside of riparian areas. In the absence of nest or roost surveys, we cannot concur that the project will not affect nesting or roosting bald eagles. We therefore recommend that Coalville City either 1) avoid construction during the nesting and roosting period for bald eagles (November - August) OR 2) conduct pre-construction surveys in the adjacent riparian corridor. More specific protocol is available from the attached document, *Utah Field Office Guidelines for RaptorProtection from Human and Land Use Disturbances* (2002).

Please feel free to contact me with any questions you may have.

Sincerely,
Amy Defreese

Amy Defreese, Ecologist
U.S. Fish and Wildlife Service
Utah Field Office

2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119

Office: (801) 975-3330 x 128
Fax: (801) 975-3331
Email: amy_defreese@fws.gov

(See attached file: Raptor Guidelines (v March 20, 2002).pdf)

United States Department of Agriculture
Rural Development
Salt Lake City, Utah
125 South State St., #4311, Salt Lake City, UT 84138
Phone (801) 524-4320, Fax (801) 524-4406

February 15, 2012

US Fish and Wildlife Service
Mr. Larry Crist
Utah Field Supervisor
2369 West Orton Circle, Suite 50
West Valley City, Utah 84119

RE: Request for Biological Determination Concurrence for the Wastewater Treatment Facility -- Coalville, Utah

Dear Mr. Crist:

Rural Development's utility program's Rural Utilities Service provides funding in rural areas under its Water and Waste Loan and Grant Program in accordance with 7 CFR Part 1780. Coalville City, a rural community, has applied for financial assistance to Rural Development to construct the Coalville Wastewater Facilities Project to serve rural residents of Coalville City, Utah.

The proposed Wastewater Project will consist of the construction of a new wastewater treatment facility near Coalville, Utah.

Rural Development has determined that the area of potential effects for this project involves portions of Summit County, Utah. Rural Development has determined the project will have No Effect on any Listed or Endanger Species nor their Critical Habitat. This determination is in agreement with the data presented in the Biological Assessment for the Proposed Coalville Wastewater Treatment Plant Summit County, Utah, dated February, 2012, prepared by JUB Engineers, Inc, Kaysville, Utah.

Additionally, USDA Rural Development has determined the proposed project may affect, but not likely to adversely affect the conservation agreement species, the Bluehead Sucker and the Bonneville Cutthroat Trout. Terms of the conservation agreement will be included in the Letter of Agreement.

Rural Development requests your concurrence with our determinations. However, if you are aware of any information Rural Development should consider, please advise Rural Development within 30 days, so that we can examine and reassess our determination.

Additionally, the following stipulation will be included within the Construction Documents:

> Endangered Species - Contractor shall comply with the Endangered Species Act, which provides for the protection of endangered and/or threatened species and critical habitat. Should any evidence of the presence of endangered and/or threatened species or their critical habitat be brought to the attention of contractor, Contractor will immediately report this evidence to Owner and a representative of Agency. Construction shall be temporarily halted pending the notification process and further directions issued by Agency after consultation with the U.S. Fish and Wildlife Service.

Rural Development and the City of Coalville intend to work closely with interested parties to ensure that the proposed project avoids adversely affecting fish and wildlife to the maximum extent feasible.

If you have any questions or concerns, please call me or email Jim.Bulkeley@ut.usds.gov.

Sincerely,

James Bulkeley, P.E.
State Environmental Coordinator
USDA Rural Development

cc: Amy Defreese, Ecologist, U.S. Fish and Wildlife Service, Utah Field Office, 2369 W. Orton Circle, Suite 50, West Valley City, Utah 84119
Scott Walker, UDWR Habitat Manager, 515 East 5300 South, Ogden, UT 84405
Paul Thompson, UDWR Habitat Manager, 515 East 5300 South, Ogden, UT 84405
Debra Meyer, Community Programs Director, Salt Lake City, Utah
Amy Ives, Area Specialist, Provo, Utah
046 rf, jeb all without attachments

Christina Osborn

From: Amy_Defreese@fws.gov
Sent: Friday, January 06, 2012 3:48 PM
To: Christina Osborn
Subject: Coalville wastewater treatment plant

Hi Christina,
I've had a chance to review the JUB letter to Jim Bulkeley dated December 23, 2011. The information in the letter was very helpful in understanding potential project effects to fish and wildlife resources. Thank you. One point of clarification: Since neither bluehead sucker nor Bonneville cutthroat trout is a species covered under ESA, there is no requirement for a Section 7 effects determination including a Biological Assessment (BA). The species are however still of conservation concern to this office and therefore I reviewed the letter with an eye toward protecting them.

I have a couple of flow related questions I am hoping you can answer:

1) At the confluence with the existing unnamed tributary and Chalk Creek, what is the predicted change in absolute flow due to elimination of outflow at this location? What is the percent reduction in flow in Chalk Creek?
2) What is the predicted amount of flow at the new outflow location? What do you predict to be the percent increase in flow in the unnamed tributary?

Based on the information you provided, I recommend that the City of Coalville incorporate the following measures into its project description to avoid and minimize impacts to the aquatic environment, bluehead sucker and Bonneville cutthroat trout:

1) In the project description for NEPA, incorporate a commitment to utilize a trenchless technique (jack and bore) to construct the gravity collection line across Chalk Creek. This will avoid ground disturbance, but will also preclude the need for a CWA 404 permit.
2) Conduct invasive vegetation control on Chalk Creek. Chalk Creek will be adjusting to a new flow regime and will be vulnerable to invasive plant species.
3) Develop a plan to incorporate new plantings (riparian and/or wetland vegetation species) along the new outfall corridor and the unnamed tributary to the Weber River. This will help stabilize the new and existing channels.
4) Develop and implement Best Management Practices to ensure ground disturbance at the construction site does not result in increased sediment and runoff into wetlands and surface water channels. For example, ensure that silt fence is properly installed and used at the edge of the construction site to keep sediment and runoff on site.

Let me know if you have any questions. I'll be in the office today until 5:30.

Best regards,
Amy

Amy Defreese, Ecologist

U.S. Fish and Wildlife Service
Utah Field Office
2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119

Office: (801) 975-3330 x 128
Fax: (801) 975-3331
Email: amy_defreese@fws.gov

December 23, 2011

Jim Bulkeley
USDA-Rural Development
Wallace F. Bennett Federal Building
125 S. State Street, Room 4311
Salt Lake City, UT 84138

Dear Jim,

This letter is provided in response to USDA-RD letter dated November 15, 2011. In the November 15, 2011 letter, USDA-RD referenced correspondence with the US Fish and Wildlife Service (USFWS) regarding the proposed Coalville Wastewater Treatment Plant (WWTP). As part of the NEPA process for the Coalville WWTP project, USFWS was contacted regarding any concerns they may have about the proposed action. USFWS responded with an email dated September 15, 2011 in which they note USFWS has conservation agreements in place (between USFWS and Utah Division of Wildlife Resources) for Bluehead Sucker and Bonneville Cutthroat Trout. As part of the NEPA process USFWS has asked that "….the applicant analyze, disclose, and minimize project effects to these two species…"

This letter summarizes the analysis, disclosure, and minimization associated with the proposed action relative to the USFWS correspondence and their reference to Bluehead Sucker and Bonneville Cutthroat Trout (BCT). Bluehead Sucker and BCT are not listed as threatened or endangered but are noted as species receiving special management attention. The content of this letter will be included in Chapter 3 of the Environmental Report (ER) and the letter itself will be included in the Agency Correspondence appendix. The email from USFWS asking for this analysis is attached to this letter and included with the other agency responses in the ER.

REVIEW OF CONSERVATION AGREEMENTS AND RELATED DOCUMENT

USFWS provided three documents for reference to guide the analysis, disclosure, and minimization of project effects on Bluehead Sucker and BCT due to the proposed action. The documents include:

- Range-Wide Conservation Agreement and Strategy for Roundtail Chub *Gila robusta*, Bluehead Sucker, *Catostomus discobolus*, and Flannelmouth sucker *Catostomus latipinnis.* Colorado River Fish and Wildlife Council, September 2006.
- Range-Wide Conservation Agreement and Strategy for Bonneville Cutthroat Trout. Utah Division of Wildlife Resources, December 2000.
- Endangered and Threatened Wildlife and Plants; 12-month Finding on a Petition to List the Bonneville Cutthroat Trout as Threatened or Endangered. Federal Register, Vol. 73, No. 175, September 9, 2008.

These documents have been reviewed relative to the proposed action. The documents contain an assessment of the condition of the species in question including their range, habitat, and other conditions necessary for successful outcomes. The documents also reference strategies or considerations to reduce threats to the species. Key considerations/threats noted in these references include:

a 466 North 900 West, Kaysville UT 84037 *p* 801 547 0393 *f* 801 547 0397 *w* www.jub.com

1. Habitat loss, habitat/instream modifications, fragmentation. The documents reviewed note impacts such as riparian zone loss, channelization, streambank de-stabilization, siltation, and waterway fragmentation all threaten the success of the species in question. These threats tend to be the result of streamside development practices, agricultural practices, logging practices, urbanization, or related alteration of natural waterways. Strategies to minimize these threats include protection of riparian areas adjacent to streams and lakes, consideration of best management practices for logging and agriculture activities, and providing development standards to protect water quality.

2. Instream Water Quality Degradation. The documents reviewed note that the instream water quality characteristics must be supported to result in successful species outcomes. Considerations to reduce threats should include addressing chemical characteristics such as instream pH, temperature, specific conductance, suspended solids, dissolved oxygen, major ions, nutrients, and trace elements. The documents suggest following established guidelines such as state water quality standards or related protocols as a strategy to support instream water quality.

SUMMARY OF PROPOSED ACTION RELATIVE TO THREATS NOTED IN CONSERVATION AGREEMENTS

The proposed action is the construction of a new WWTP that will be designed to treat municipal wastewater generated in Coalville City. The proposed WWTP will replace an existing WWTP that has been treating Coalville's wastewater since the 1960s (with an upgrade in the 1980s) with existing discharge to Chalk Creek. The proposed facility will discharge effluent to an unnamed conveyance that is a tributary to Chalk Creek and the Weber River. Due to challenges related to site ownership and other factors, Coalville City has elected to seek funding for construction of a new treatment facility. Section 1.1 of the ER details the history of the existing site and the need for a new facility. Figure 1 (attached) shows an overview of the planning area. Figures 2, 2A, 2B, 2C (attached) show the existing WWTP and existing permitted discharge to Chalk Creek. Figures 3, 3A, and 3B (attached) show the proposed site plan and the proposed outfall location. Figure 4 and 4A (attached) shows an overall view of the proposed site relative to the existing WWTP and shows the unnamed waterway/conveyance upstream of its confluence with Chalk Creek.

1. The Proposed Action and Threat of Habitat Loss or Modification: The proposed treatment facility will be located in an upland area a significant distance from riparian zones, waterways, Chalk Creek, the Weber River or low-land/wetland areas. Section 3.4 of the ER notes a wetland investigation has established the site of the proposed treatment facility as an upland site. Land disturbance associated with the proposed treatment facility will not be within Chalk Creek, Weber River, or unnamed tributary waterways. A gravity collection line will be required across Chalk Creek at approximately the location of the existing collection system line just east of the rail trail. This proposed collection line is anticipated to be relatively deep at Chalk Creek and preliminary planning indicates the line could be installed using trenchless techniques such as jacking and boring to go underneath Chalk Creek with no creek disturbance. Any disturbance at Chalk Creek is expected to minimal and temporary with actual stream modifications (e.g., coffer dams, trenching, bypass pumping, etc.) not anticipated. The construction documents will reference compliance with local, state, and federal regulations including the Endangered Species Act and will include provisions for best management practices to control site runoff from construction activities.

2. The Proposed Action and Threat of Instream Water Quality Degradation: The new facility will be permitted through a Utah Pollution Discharge Elimination Permit (UPDES) issued by the Utah Division of

Water Quality (DWQ). As part of this permit being issued, DWQ has performed a detailed waste load analysis of the receiving water and a detailed Antidegradation Review (ADR). The ADR confirms that the designated uses for the receiving water are maintained and protected. One of the designated uses for the affected reach of Chalk Creek/Weber River is protection for use by aquatic wildlife, specifically for cold water species of game fish and other cold water aquatic wildlife. The proposed WWTP will be designed to produce higher quality effluent than the existing facility design and will discharge in accordance with the UPDES permit issued by DWQ. Additionally, the existing WWTP discharges directly to lower Chalk Creek approximately 1,000 feet upstream from Chalk Creek's confluence with the Weber River. The newly proposed discharge location will convey effluent from the WWTP outfall through a low-land/wetland area for approximately 700 feet where the effluent will then intersect an unnamed waterway (see Figure 4). This unnamed conveyance will convey the effluent north for approximately 1,000 feet where the waterway is tributary to Chalk Creek and the Weber River. This increased attenuation of overland conveyance and longer mixing zones prior to entering the Weber River/Chalk Creek system is expected to be an improvement over the current direct discharge to Chalk Creek.

DETAILS OF PROPOSED ACTION RELATIVE TO THREATS NOTED IN CONSERVATION AGREEMENTS

1. Minimizing Threat of Habitat Modification: The proposed treatment facility will be located in an upland area a significant distance from riparian zones, waterways, Chalk Creek, the Weber River or low-land/wetland areas (see Figures 3 and 4). Section 3.4 of the ER notes a wetland investigation has established the site of the proposed treatment facility as an upland site. Land disturbance associated with the proposed treatment facility will not be within Chalk Creek, Weber River, or unnamed tributary waterways. A gravity collection line will be required across Chalk Creek at approximately the location of the existing collection system line just east of the rail trail. This proposed collection line is anticipated to be relatively deep at Chalk Creek and preliminary planning indicates the line could be installed using trenchless techniques such as jacking and boring to go underneath Chalk Creek with no creek disturbance. Any disturbance at Chalk Creek is expected to minimal and temporary with actual stream modifications (e.g., coffer dams, trenching, bypass pumping etc.) not anticipated. The construction documents will reference compliance with local, state, and federal regulations including the Endangered Species Act and will include provisions for best management practices to control site runoff from construction activities. Additionally, as part of the permitting process, DWQ has toured the site and receiving water area and indicated that the effluent flow relative to the receiving conveyance/water way will not require stream bank stabilization. The outfall will be designed to dissipate any remaining energy on the upland portion of the site directly at the outfall location and the conveyance through the lowland/wetland area to the tributary will be a low energy overland flow type conveyance.

Chapter 3 of the ER describes the existing land and impact on this upland site from the proposed action. The current land use is pasture hay cultivation and grazing. The proposed action will convert the 6 acre site to public facility use. The facilities will include treatment facilities such as closed tanks, open tanks under canopies, or buildings enclosing equipment. Construction related runoff will be controlled by the contractor under best management practices including a stormwater pollution prevention plan (SWPPP). The site will be graded to control post development stormwater runoff equal to or less than pre-development levels. Considering that the major land disturbance/alteration association with the treatment plant is upland some distance from waterways, no threat to stream bank stabilization, silting, fragmentation, or related habitat alterations is anticipated under the proposed action.

2. Minimizing Threat of Instream Water Quality Degradation: As part of the DWQ and USDA planning process, Coalville City investigated treatment alternatives for a new facility. Many factors were considered in the selection of a recommended alternative including current and future permit limits, continued review of nutrient loading to the Weber River system and Echo Reservoir (Echo is listed as impaired on the state 303d list), DWQ's ADR process, funding availability, and rate payer affordability. Chapter 2 of the Environmental Report discusses in more detail the alternatives reviewed as part of the planning process. Appendix G includes the Anti-Degradation Review.

From this alternatives planning process, a treatment facility has been proposed that will meet proposed permit limits, possible future more stringent permit limits, and designed to provide higher quality effluent than the current facility design. Table 1 presents a summary of the permit parameters and how they are related to the Conservation Agreements for BCT and Bluehead Sucker. It is noted that there will only be one active discharge point; once the new facility is constructed the existing facility and existing discharge will be abandoned. Table 1 suggests the water quality of the receiving water will improve with the construction of the new facility.

Compliance with Proposed UPDES Permit as a Strategy to Minimize Effects of Proposed Action

The most critical element of protecting receiving water quality is adherence to the UPDES permit. The UPDES permit is issued by DWQ under the auspices of the federal National Pollutant Discharge Elimination System (NPDES) program. One method for establishing permit limits is a process called the wasteload analysis (WLA). As part of the permitting process and ADR, DWQ performed a WLA for the receiving stream. This WLA is a modeling effort that considers the beneficial use designations of the receiving water and then models how point loads may affect the receiving water and downstream beneficial uses. The model considers mixing zones, receiving water flowrates, discharge flowrates, and bio-chemical processes in the stream. The entire results of the modeling effort are found in Appendix G of the ER.

The receiving water was identified as an unnamed tributary to Chalk Creek which is tributary to the Weber River. With respect to designated uses, the receiving water is classified as: 1C (protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water), 2B (protected for infrequent primary contact recreation), 3A (protected for cold water species of game fish and other cold water aquatic life) and 4 (agricultural irrigation).

The class 3A level of protection is most applicable to cold water fish species such as the BCT; the Class 3A designation considers impacts from critical water quality parameters such as ammonia (both chronic and acute), dissolved oxygen, and organic loading (i.e., BOD). The WLA generated the proposed permit limits shown in Table 1. These proposed permit limits are therefore protective of designated uses and impacts to cold water species such as the BCT should be minimized as long as permit limits are attained. There has been no indication from DWQ that they have concerns about water quality impacts or the new facility assuming the permit limits are met.

Nutrient Removal Design as a Strategy to Minimize Effects of Proposed Action

Echo Reservoir is listed on the state's 303d list for impaired waters. The impairment has been identified as one of depressed dissolved oxygen attributed to excessive nutrient loading. To address this concern, DWQ developed a Total Maximum Daily Load (TMDL) report with nutrient reduction strategies. This document was submitted to US EPA in 2006 and has since been rejected by EPA. DWQ is now in the

process of revising the document on a watershed basis to include Echo Reservoir, Rockport Reservoir, and the Weber River and associated tributaries between the water bodies. The TMDL process and significant DWQ research into nutrient removal and potential pending nutrient limits in future permits has led DWQ to indicate that Coalville should design for an effluent Total Nitrogen of less than 10 mg/l and an effluent Total Phosphorus of less than 1 mg/l. Nutrient discharge at these levels represents an approximately 50 to 60 percent reduction in nutrient loading compared to conventional wastewater treatment facilities. These kinds of nutrient limits for both nitrogen and phosphorus are in few permits right now in the state of Utah and would represent something of a precedent for nutrient removal requirements. With these proposed limits and the need for flexibility to potentially meet even lower limits in the future, the proposed facility is a treatment facility with deliberate provisions to remove nitrogen and phosphorus. These deliberate provisions for nutrient removal are not included in the existing facility. The process recommended for the proposed action is a targeted nitrogen removal process that is proven to meet effluent limits of Total Nitrogen < 10 mg/l. Additionally, addition of a metal salt such as aluminum sulfate (alum) will be included in the treatment facility to reduce the phosphorus.

Communication with DWQ indicates this nutrient removal strategy will support DWQ's efforts at improving water quality in the Weber River/Echo reservoir watershed. In addition, as part of the due diligence associated with the ER the Utah Division of Wildlife Resources (UDWR), was consulted regarding biological resources in the project area of Coalville City (see Appendix I). The UDWR noted that they "have general concerns with water quality in the Chalk Creek/Weber River area near Coalville, mostly revolving around excessive nutrient-loading in the waterways which can negatively impact fish and other aquatic organisms...A new and improved effluent treatment plant likely would help the water quality, and so we tend to view the proposed project as positive." Further, they noted that they "do not have any local siting concerns with the proposed area your development plan described" and "are happy to rely on the...[Utah Division of Water Quality] to ensure that the UPDES permit captures the necessary water-quality goals." The correspondence from UDWR is attached to this letter.

Feel free to contact Trevor Lindley or Christina Osborn at J-U-B Engineers with any questions, comments or concerns. Trevor can be reached by phone at 801-547-0393 or email at tlindley@jub.com and Christina can be reached by phone at 801-886-9052 or email at cosborn@jub.com. Thanks in advance for your assistance with this project.

Sincerely,
J-U-B ENGINEERS, Inc.

Trevor R. Lindley

Trevor R. Lindley, P.E., BS/MS Environmental Engineering
Project Manager

CC: Christina Osborn, J-U-B Engineers
Cindy Gooch, J-U-B Engineers
Vince Barthels, J-U-B Engineers
Duane Schmidt, Mayor Coalville City
Bill Damery, Utah Division of Water Quality

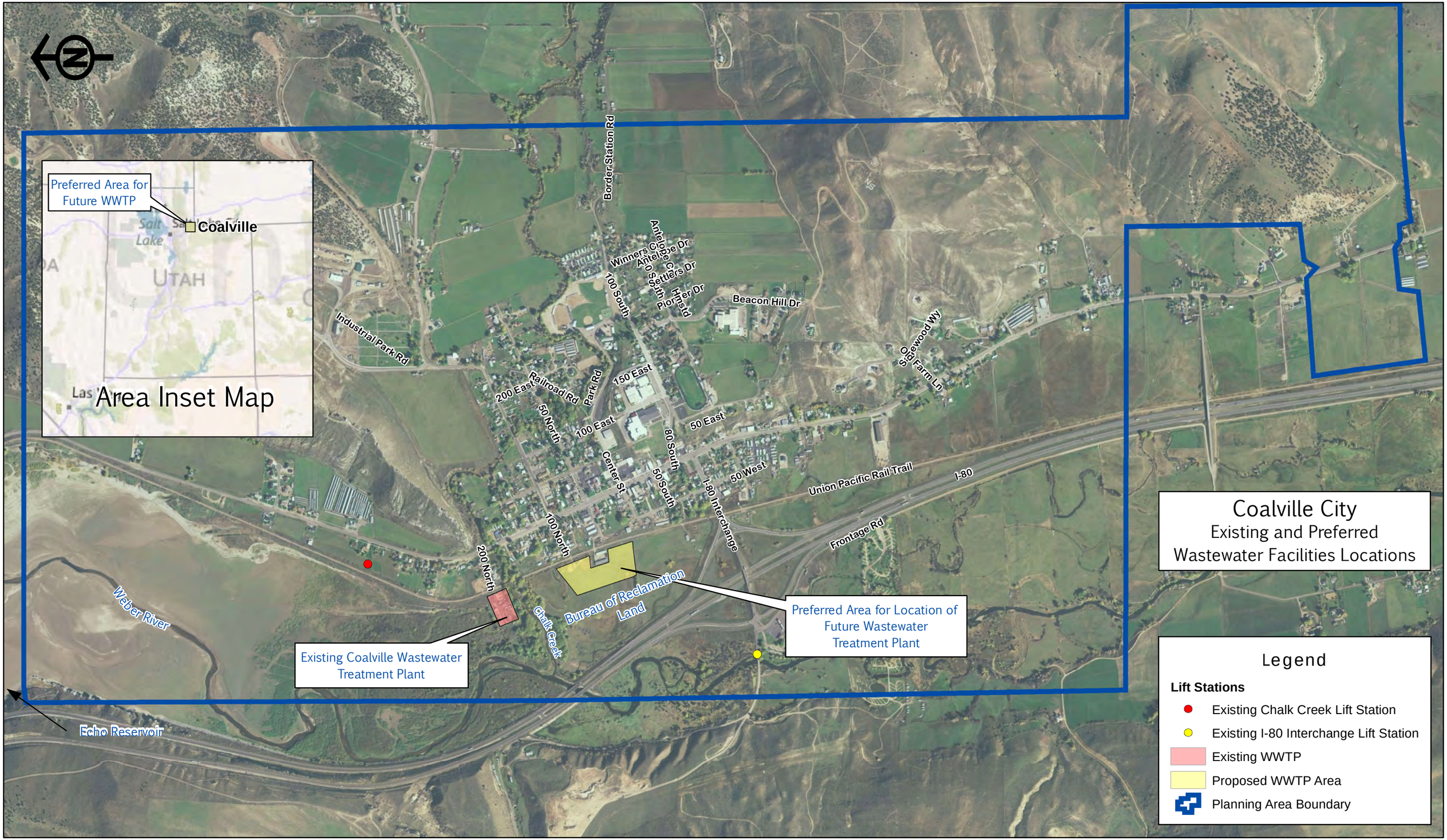
Table 1. Water Quality Assessment

Water Quality/Habitat Consideration	Relation to Conservation Agreements	Existing Facility Effluent Design	Proposed Facility Effluent Design[1]	Comparison of Existing Facility to Proposed Facility
Discharge Location	-	Discharge is direct to Chalk Creek	Conveyance through undefined lowland/wetland area into unnamed waterway with eventual connectivity to Chalk Creek/Weber River	Proposed discharge is expected to have added attenuation of effluent prior to reaching Chalk Creek
Flowrates	-	Average Daily Design Capacity: 0.350 million gallons per day. Flows typical of the time period 2010-2012: 0.225 million gallons per day (continuous discharge)	Average Daily Design Capacity: 0.50 million gallons per day. Flows typical of the time period 2010-2012: 0.225 million gallons per day (continuous discharge)	Both facilities have capacity to accept additional wastewater flow from growth in the community
Operator Training	Well trained operator ensures reliable operation	Operator is a Class 4 licensed operator for treatment. Existing facility has been recognized due to exceptional performance.	City anticipates continuing with same operator and Class 3-4 (4 is highest level of training) operator will be required	Existing and proposed are similar
Biochemical Oxygen Demand (BOD)	BOD is a measure of oxygen demanding organic matter	Permit Limit: 25 mg/l Typical Performance: < 10 mg/l	Permit Limit: 25 mg/l Typical Performance: < 10 mg/l	Existing and proposed are similar
Total Suspended Solids (TSS)	TSS is a measure of particulate matter that may also exhibit oxygen demand or increase turbidity/sediments	Permit Limit: 25 mg/l Typical Performance: < 10 mg/l	Permit Limit: 25 mg/l Typical Performance: < 10 mg/l	Existing and proposed are similar
Ammonia	Ammonia can exhibit oxygen demand and can exhibit toxicity to fish species in its un-ionized form	Permit Limit: No limit Typical Performance: < 5 mg/l	Permit Limit: 6.4 mg/l Typical Performance: < 1 mg/l	Proposed process is designed for nitrogen removal and will provide nearly complete nitrification (i.e., no ammonia). Existing process was not designed to meet an ammonia or TN limit.

Table 1. Water Quality Assessment (cont'd)

Water Quality/Habitat Consideration	Relation to Conservation Agreements	Existing Facility Effluent Design	Proposed Facility Effluent Design[1]	Comparison of Existing Facility to Proposed Facility
Dissolved Oxygen	Depressed oxygen levels can impact fish and related food chains	Permit Limit: > 5 mg/l Typical Performance: 6-8 mg/l	Permit Limit: > 5 mg/l Typical Performance: 6-8 mg/l	Existing and proposed are similar
Total Residual Chlorine	Chlorine can be toxic to fish and related aquatic life	No limit. Existing facility uses UV light for disinfection; there is no use of chlorine	No limit. Proposed facility will use UV light for disinfection; there is no use of chlorine	Existing and proposed are similar; no chlorine impacts
pH	Neutral pH ranges are more desirable	Permit Limit: 6-9 Typical Performance: 6-9	Permit Limit: 6-9 Typical Performance: 6-9	Proposed facility will include an anoxic zone that will recover alkalinity, thus providing improved buffering against pH changes
Total Nitrogen (TN)[2]	More nutrient loading can lead to eutrophication and depressed oxygen levels	Permit Limit: No Limit Typical Performance: 5-15 mg/l	Permit Limit: < 10 mg/l Typical Performance: 5-8 mg/l	Proposed process is designed for nitrogen removal and will intentionally reduce total nitrogen to very low levels
Total Phosphorus (TP)[2]	More nutrient loading can lead to eutrophication and depressed oxygen levels	Permit Limit: No Limit Typical Performance: 0.5 to 2 mg/l	Permit Limit: < 1 mg/l Typical Performance: < 1 mg/l	Proposed facility will include chemical phosphorus removal system. Existing facility does not include dedicated means for phosphorus removal.

1. Proposed permit limits are based on typical new permits being issued by DWQ, information developed through the WLA, and discussions with DWQ during the planning period. Final values will be proposed by DWQ in the actual newly issued permit.
2. The existing facility is not designed specifically to remove nitrogen and phosphorus. Over years of operation the operator has become adept at minor operational adjustments that have resulted in exceptional effluent quality for nitrogen and phosphorus. As the existing facility moves closer to its design capacity, it is anticipated the effluent quality relative to Total Nitrogen and Total Phosphorus would increase.



J·U·B ENGINEERS, INC.

GATEWAY MAPPING INC.
a J-U-B Company

Date: 8/8/2011

Figure 1

F:\PROJECTS\JUB\COALVILLE\55-11-048 USDA WWTP APPLICATION\CAD\55-11-048_FIG_3-3.DWG

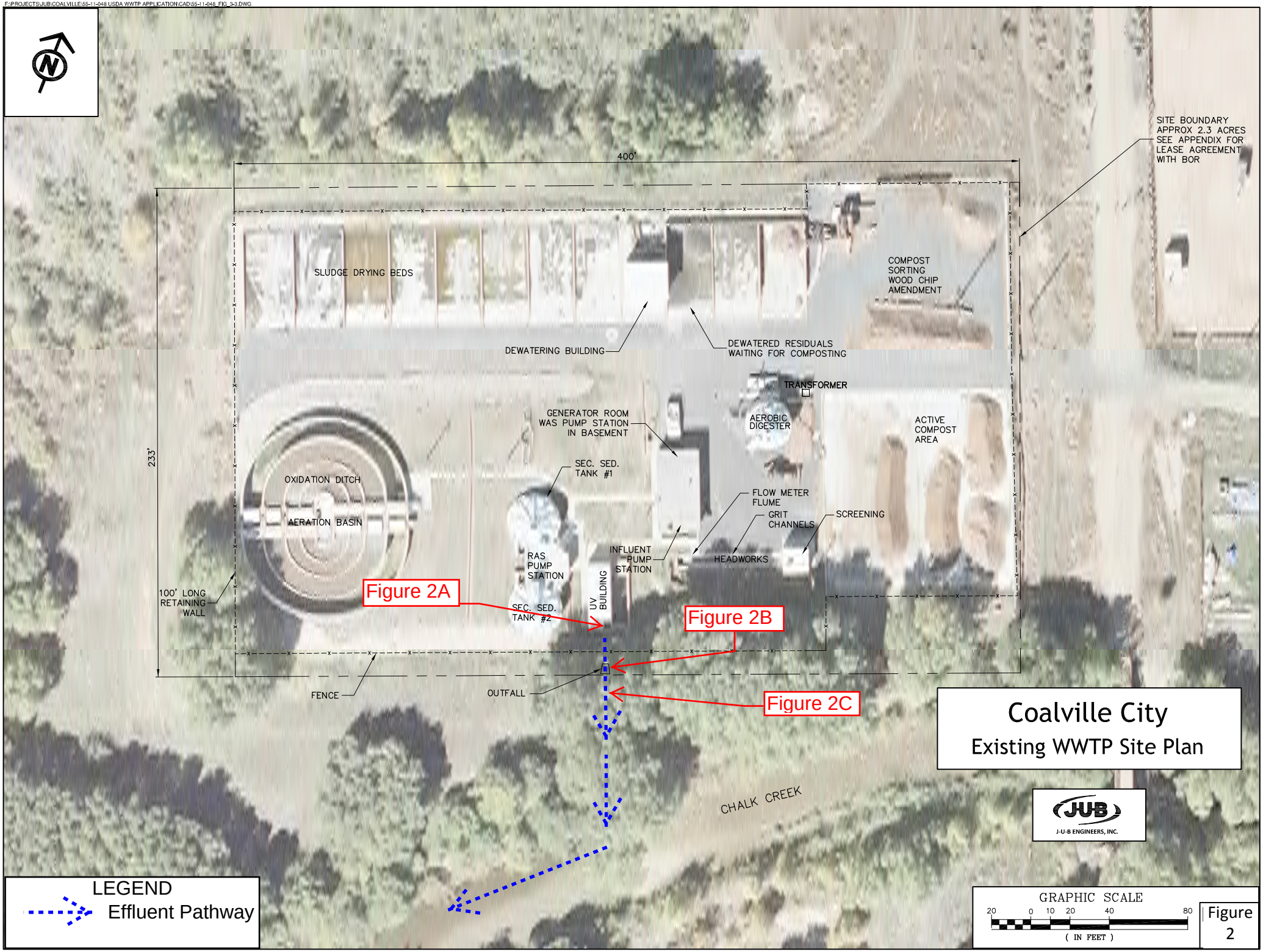


Figure 2A. Existing discharge from the Treatment Plant Ultraviolet Disinfection System. The photo was taken November 8, 2006.

Figure 2B. Existing outfall structure. At this location the effluent is discharged from the headwall into an unnamed tributary, which then flows into Chalk Creek. The photo was taken November 8, 2006.

Figure 2C. Unnamed conveyance with effluent flowing into Chalk Creek. At this location the effluent is flowing from the unnamed tributary into Chalk Creek in the distance. The photo was taken November 8, 2006.

COALVILLE CITY
ALTERNATIVE 2
SITE PLAN

LEGEND

- (N1) ADMINISTRATION BUILDING (3500 S.F.)
- (N2) HEADWORKS BUILDING
- (N3) MLE PROCESS TRAINS
- (N4) FUTURE PROCESS TRAINS
- (N5) SPLITTER BOX
- (N6) SECONDARY CLARIFIERS
- (N7) FUTURE CLARIFIERS
- (N8) FILTERS AND UV DISINFECTION
- (N9) AEROBIC DIGESTERS
- (N10) FUTURE AEROBIC DIGESTERS
- (N11) DEWATERING BUILDING
- (N12) EMERGENCY GENERATOR
- (N13) OUTFALL
- (N14) BLOWER/RAS PUMP BUILDING

SS EXISTING SANITARY SEWER
SS PROPOSED SANITARY SEWER
PROCESS FLOW PATH

0 50 100
SCALE IN FEET

J-U-B ENGINEERS, INC.
466 North 900 West
Kaysville, Utah 84037
Phone: 801.547.0393
Fax: 801.547.0397
www.jub.com

PRELIMINARY PLANS

NOT FOR CONSTRUCTION

NO.	DESCRIPTION	BY	APPR.	DATE
	REVISION			

PROPOSED WASTEWATER TREATMENT FACILITY
COALVILLE CITY CORPORATION

FACILITY PLAN UPDATE
CONVENTIONAL ACTIVATED SLUDGE AT NEW SITE
CONCEPTUAL SITE PLAN

FILE: 55-11-048_FIG_2-1
JUB PROJ. #:
DRAWN BY: JDM
DESIGN BY: JJG
CHECKED BY:
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 10/11/2011

Figure 3

Plot Date:10/11/2011 2:59 PM Plotted By: Jason Miller
Date Created:10/11/2011 P:\PROJECTS\JUB\COALVILLE\55-11-048 USDA WWTP APPLICATION\CAD\55-11-048_FIG_2-1.DWG

Figure 3A. Upland Area. The photo was taken of the upland area looking west from the proposed site during a June 22, 2011 site visit.

Figure 3B. Lowland/Outfall area. The photo was taken of the lowland where the proposed outfall will convey prior to eventual entrance to Chalk Cree. Looking west towards the I-80 freeway during a September 1, 2011 site visit by Utah Division of Water Quality staff.


Existing Coalville WWTP
Proposed Location of New WWTP
Chalk Creek
Weber River
BOR
WWTP Outfall
Figure 4A
Figure 3B
Unnamed Tributary
LEGEND
Effluent Pathway
Icy Springs Rd
Historic Union Pacific Rail Trail State Park "the Rail Trail"
Center St
100 N
50 E
50 S
100 S
80
280
© 2011 Google
40°54'59.67" N 111°24'15.21" W elev 5569 ft
1993

Figure 4

Figure 4A. Unnamed Tributary. The photo was taken of the unnamed tributary looking south towards the intersection of the lowland/wetland area, which is on the left side of the photo, during a September 1, 2011 site visit by Utah Division of Water Quality staff.

Utah Division of Wildlife Resources (UDWR)

Christina Osborn

From: Bill James <billjames@utah.gov>
Sent: Thursday, September 15, 2011 2:48 PM
To: Christina Osborn
Cc: Judy Edwards
Subject: Re: Coalville Wastewater Treatment Plant: request for comments
Attachments: billjames_businesscard.gif

Christina,

I did check with our Assistant Habitat Manager (Kent Sorenson) and our Habitat Biologist (Pam Kramer), both based out of our Northern Region Office in Ogden. They are the DWR personnel responsible for impact analysis in the vicinity of Coalville City. They provided more detail to me, but essentially agreed with what I had mentioned previously to you. I will re-capitulate that here, to give you assurances, and to document for Coalville City (as your client) that there is no need for a letter from DWR on this subject.

We have general concerns with water quality in the Chalk Creek/Weber River area near Coalville, mostly revolving around excessive nutrient-loading in the waterways which can negatively impact fish and other aquatic organisms. Lots of phosphorous... is a Section 319 (Clean Water Act) "non-attainment" area... any practical steps to cut down on nitrates and especially phosphates entering the water would be desirable, and beneficial to fish and wildife. A new & improved effluent treatment plant likely would help the water quality, and so we tend to view the proposed project as positive. We do not have any local siting concerns with the proposed area your development plan described. We are happy to rely on the Utah Department of Environmental Quality / Division of Water Quality to ensure that the UPDES permit captures the necessary water-quality goals.

Bill James
Utah Div. of Wildlife Resources
801.538.4752 office

>>> On Thursday, September 15, 2011 at 11:18 AM, <cosborn@jub.com> wrote:

> Bill,
> We spoke last week regarding the request for comments from Division of Wildlife for the Coalville City Wastewater Treatment Plant project. You had planned to collect comments from the Ogden Regional Office and then send those and yours, which we discussed on the phone were general comments related to wastewater treatment plants. I know you had planned to be out of the office earlier in the week, but you were hoping to get comments to me by today.
>
> Please let me know what you have come up with.
>
> Much thanks in advance.
>
> **Christina Osborn, P.E.**
> *Project Engineer*
>
> **J-U-B ENGINEERS, Inc.**
> 2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
> p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com
>
> THE J-U-B FAMILY OF COMPANIES:

U.S. Fish and Wildlife Service (USFWS)

Christina Osborn

From: Amy_Defreese@fws.gov
Sent: Wednesday, September 14, 2011 2:27 PM
To: Christina Osborn
Subject: Re: Coalville WWTP: request for comments
Attachments: pic22741.gif; Three species UT_conservation_plan_5-11-07.pdf; BCT_12month.pdf; 2000 BCT Conservation Agreement and Strategy.pdf; Figure 1.pdf; Project Description.pdf; USFWS.pdf

Hi Christina,
Thank you for opportunity to provide comment. In speaking with our fisheries biologist, I am aware that there is habitat for bluehead sucker and Bonneville cutthroat trout in the Weber River and lower Chalk Creek. We signed a conservation agreement with the State of Utah Division of Wildlife Resources (as well as a number of other state agencies) for bluehead sucker (attached). I've also attached the conservation agreement for BCT (2000) and the FWS 12-month finding (2008). Our 12-month finding determined the species was not warranted for listing at the time. We continue to work for conservation of BCT under the 2000 Conservation Agreement.

We request that in the environmental assessment for this project, the applicant analyze, disclose, and minimize project effects to these two species. I don't believe I can offer specific mitigation measures at this time because I don't understand the extent and nature of potential impacts. The documents I've attached should be referenced in your EA. You will find species population and habitat information as well as relevant conservation measures. If you have any questions, you can contact the following individuals for more information:

BCT: Paul Abate (801) 975-3330 x130
Bluehead sucker: Kevin McAbee (801) 975-3330 x143

Best regards,
Amy Defreese

Amy Defreese, Ecologist
U.S. Fish and Wildlife Service
Utah Field Office
2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119

Office: (801) 975-3330 x 128
Fax: (801) 975-3331
Email: amy_defreese@fws.gov

(See attached file: Three species UT_conservation_plan_5-11-07.pdf)(See attached file: BCT_12month.pdf)(See attached file: 2000 BCT Conservation Agreement and Strategy.pdf)

"Christina Osborn" <cosborn@jub.com>

"Christina Osborn"
<cosborn@jub.com> To<amy_defreese@fws.gov>

09/08/2011 02:53 PM cc

SubjectCoalville WWTP: request for comments

Amy,
Per our conversation moments ago attached are the letter requesting comments, the project description and a figure of the preferred project location for the Coalville Wastewater Facilities project.

Let me know if you need additional information. Comments by email are acceptable.

Thanks in advance,

Christina Osborn, P.E.
Project Engineer
J-U-B ENGINEERS, Inc.
2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com

THE J-U-B FAMILY OF COMPANIES:
www.jub.com | www.gatewaymapping.com | www.langdongroupinc.com

(See attached file: Figure 1.pdf)(See attached file: Project Description.pdf)(See attached file: USFWS.pdf)

Phone call Correspondence

12/5/11

Phone call with Amy Defreese of the USFWS

801-975-3330 ext 128

Objective: To make sure the biological letter (letter) that JUB plans to send to USDA-RD, who will then forward it to USFWS, sufficiently addresses USFWS's concerns with the project and any potential impacts to the Bonneville Cutthroat Trout and Bluehead Sucker. During the phase of the Environmental Report when agencies were formally asked to comment on the project after receiving a letter with a project description and figure of the potential location, the USFWS comments noted they would like the project applicant to "analyze, disclose and minimize project effects to these two species."

In my discussion with Amy I noted that I had reviewed the Conservation Agreements and the Proposed Rule for the Petition to List the Bonneville Cutthroat Trout (BCT) and Bluehead Sucker, which were included with the USFWS response during the agency comment period. One of the main takeaways from the Conversation Agreements was the interest in improving habitat for the species, by improving water quality. I mentioned that this will be done with the project because the new wastewater treatment facility (WWTF) will be designed to remove nutrients (nitrogen and phosphorus). While the current facility removes both nutrients, it was not designed to do so. The net effect will be a decrease in nutrient concentrations, and an increase in water quality. Also, I noted the Antidegrdation Review being done by the Division of Water Quality. The Conservation Agreements also suggested decreasing threats to habitat. Noted threats included grazing. The current use of the land is grazing, so a conversion of the activity on the land to the WWTF could decrease the potential threats.

Amy agreed with the above arguments that the project will pose no adverse effect to the species. We discussed at length the discharge from the existing WWTF and the new WWTF. The current facility discharges into Chalk Creek via a pipe (Note: the actual discharge is via an unnamed ditch to Chalk Creek). The new WWTF discharges into an unnamed ditch. Amy suggested verifying that streambank stabilization won't be needed either on the unnamed ditch or on the Weber River. This will be included in the letter. I noted that we anticipate no improvements to the ditch and no construction on or in the Weber River or its banks. Amy suggested describing/showing how the unnamed ditch discharges into the Weber River. I noted that I would include in the Environmental Report that the contractor put in place Best Management Practices (BMPs) during construction. The BMPs are to include silt fences within ten feet of wetlands and the unnamed ditch, which flow into the Weber River, to ensure that fill material does not end up in either.

Amy noted that if USDA concludes that there is no affect to the species, no written concurrence will be needed from the USFWS. If USDA concludes that the project may affect, but is not likely to adversely affect the species, then concurrence may be needed from the USFWS.

Emails

From: Amy_Defreese@fws.gov [mailto:Amy_Defreese@fws.gov]
Sent: Wednesday, September 14, 2011 2:27 PM
To: Christina Osborn
Subject: Re: Coalville WWTP: request for comments

Hi Christina,
Thank you for opportunity to provide comment. In speaking with our fisheries biologist, I am aware that there is habitat for bluehead sucker and Bonneville cutthroat trout in the Weber River and lower Chalk Creek. We signed a conservation agreement with the State of Utah Division of Wildlife Resources (as well as a number of other state agencies) for bluehead sucker (attached). I've also attached the conservation agreement for BCT (2000) and the FWS 12-month finding (2008). Our 12-month finding determined the species was not warranted for listing at the time. We continue to work for conservation of BCT under the 2000 Conservation Agreement.

We request that in the environmental assessment for this project, the applicant analyze, disclose, and minimize project effects to these two species. I don't believe I can offer specific mitigation measures at this time because I don't understand the extent and nature of potential impacts. The documents I've attached should be referenced in your EA. You will find species population and habitat information as well as relevant conservation measures. If you have any questions, you can contact the following individuals for more information:

BCT: Paul Abate (801) 975-3330 x130
Bluehead sucker: Kevin McAbee (801) 975-3330 x143

Best regards,
Amy Defreese

Amy Defreese, Ecologist
U.S. Fish and Wildlife Service
Utah Field Office
2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119

Office: (801) 975-3330 x 128
Fax: (801) 975-3331
Email: amy_defreese@fws.gov

(See attached file: Three species UT_conservation_plan_5-11-07.pdf)(See attached file: BCT_12month.pdf)(See attached file: 2000 BCT Conservation Agreement and Strategy.pdf)

From: Amy_Defreese@fws.gov [mailto:Amy_Defreese@fws.gov]
Sent: Monday, September 12, 2011 4:59 PM
To: Christina Osborn
Subject: Re: Coalville WWTP: request for comments

Hi Christina,
I'm still waiting to hear from a biologist in our office on this project (relative to fish concerns). I may not be able to get you any comments until Wednesday as I will be out of hte office most of hte day tomorrow. Will that be alright?

Best,
Amy

Amy Defreese, Ecologist
U.S. Fish and Wildlife Service
Utah Field Office
2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119

Office: (801) 975-3330 x 128
Fax: (801) 975-3331
Email: amy_defreese@fws.gov

From: Amy_Defreese@fws.gov [mailto:Amy_Defreese@fws.gov]
Sent: Thursday, September 08, 2011 3:35 PM
To: Christina Osborn
Subject: Re: Coalville WWTP: request for comments

Christina,
Thanks for forwarding me the project information. I would like to pass it by our fisheries biologist for potential impacts to bluehead sucker (state sensitive species under a Conservation Agreement to which we are a signatory). I won't see him until Monday, but will get back to you then.

Thanks!
Best regards,
Amy

Amy Defreese, Ecologist
U.S. Fish and Wildlife Service
Utah Field Office
2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119

Office: (801) 975-3330 x 128
Fax: (801) 975-3331
Email: amy_defreese@fws.gov

"Christina Osborn" <cosborn@jub.com>

"Christina Osborn" <cosborn@jub.com>	<amy_defreese@fws.gov>
09/08/2011 02:53 PM	To
	cc
	Subject: Coalville WWTP: request for comments

Amy,
Per our conversation moments ago attached are the letter requesting comments, the project description and a figure of the preferred project location for the Coalville Wastewater Facilities project.

Let me know if you need additional information. Comments by email are acceptable.

Thanks in advance,

Christina Osborn, P.E.
Project Engineer
J-U-B ENGINEERS, Inc.
2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com

THE J-U-B FAMILY OF COMPANIES:
www.jub.com | www.gatewaymapping.com | www.langdongroupinc.com

(See attached file: Figure 1.pdf)(See attached file: Project Description.pdf)(See attached file: USFWS.pdf)

U.S. Department of Agriculture,
Natural Resources Conservation Service

Request for Comments

August 8, 2011

Mike Domeier, State Soil Scientist
U.S. USDA, Natural Resources Conservation Service
125 South State Street, Room 4402
Salt Lake City, UT 84138

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Mike,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

United States Department of Agriculture

NRCS
Natural Resources Conservation Service
125 South State Street, Room 4010
Salt Lake City, UT 84138-1100
(801) 524-4550
FAX (801) 524-4403

August 10, 2011

Christina Osborn, Project Engineer
J-U-B Engineers, Inc.
2875 South Decker Lake Drive, Suite 575
Salt Lake, Utah 84119

RE: Prime Farmland Status

Dear Ms. Osborn:

Please find attached Farmland Conversion Impact Rating (AD-1006) for the proposed project in Summit County, Utah.

The proposed Coalville City Wastewater Facilities Project will impact about four acres of important farmland resources in Utah. The soil map unit affected by this proposed project is 176, Wanship-Kovich loams, 0 to 3 percent slopes. Soil map unit 176 is considered Farmland of Statewide Importance. Based on imagery from 2009, it is estimated that about one acre of the project impact area has already been converted, but about four acres still meet the criteria for Farmland of Statewide importance.

I hope you find this information helpful. Please don't hesitate to call (801.524.4574) or email (mike.domeier@ut.usda.gov) with any further questions.

Sincerely,

MIKE DOMEIER
State Soil Scientist, NRCS, Utah

Enclosure: AD-1006

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request 8/8/11
Name Of Project Coalville City Wastewater Facility	Federal Agency Involved USDA, Rural Development
Proposed Land Use New wastewater facility	County And State Summit, Utah
PART II *(To be completed by NRCS)*	Date Request Received By NRCS 8/9/11

Does the site contain prime, unique, statewide or local important farmland? *(If no, the FPPA does not apply -- do not complete additional parts of this form).*	Yes ☑	No ☐	Acres Irrigated 28332	Average Farm Size 674

Major Crop(s) alfalfa	Farmable Land In Govt. Jurisdiction Acres: 42830 % 4	Amount Of Farmland As Defined in FPPA Acres: 31072 % 3
Name Of Land Evaluation System Used Utah NRCS LE	Name Of Local Site Assessment System None	Date Land Evaluation Returned By NRCS 8/10/11

PART III *(To be completed by Federal Agency)*	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly	0.0			
C. Total Acres In Site	0.0	0.0	0.0	0.0
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	0.0			
B. Total Acres Statewide And Local Important Farmland	4.0			
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	0.0			
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	55.0			
PART V *(To be completed by NRCS)* Land Evaluation Criterion Relative Value Of Farmland To Be Converted *(Scale of 0 to 100 Points)*	78	0	0	0

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(These criteria are explained in 7 CFR 658.5(b)*	Maximum Points				
1. Area In Nonurban Use					
2. Perimeter In Nonurban Use					
3. Percent Of Site Being Farmed					
4. Protection Provided By State And Local Government					
5. Distance From Urban Builtup Area					
6. Distance To Urban Support Services					
7. Size Of Present Farm Unit Compared To Average					
8. Creation Of Nonfarmable Farmland					
9. Availability Of Farm Support Services					
10. On-Farm Investments					
11. Effects Of Conversion On Farm Support Services					
12. Compatibility With Existing Agricultural Use					
TOTAL SITE ASSESSMENT POINTS	160	0	0	0	0
PART VII *(To be completed by Federal Agency)*					
Relative Value Of Farmland *(From Part V)*	100	78	0	0	0
Total Site Assessment *(From Part VI above or a local site assessment)*	160	0	0	0	0
TOTAL POINTS *(Total of above 2 lines)*	260	78	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes ☐ No ■

Reason For Selection:

(See Instructions on reverse side)

Form AD-1006 (10-83)

This form was electronically produced by National Production Services Staff

STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

Step 1– Federal agencies involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form.

Step 2 – Originator will send copies A, B and C together with maps indicating locations of site(s), to the Natural Resources Conservation Service (NRCS) local field office and retain copy D for their files. (Note: NRCS has a field office in most counties in the U.S. The field office is usually located in the county seat. A list of field office locations are available from the NRCS State Conservationist in each state).

Step 3 – NRCS will, within 45 calendar days after receipt of form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland.

Step '4 – In cases where farmland covered by the FPPA will be converted by the proposed project, NRCS field offices will complete Parts II, IV and V of the form.

Step 5 – NRCS will return copy A and B of the form to the Federal agency involved in the project. (Copy C will be retained for NRCS records).

Step 6 – The Federal agency involved in the proposed project will complete Parts VI and VII of the form.

Step 7 – The Federal agency involved in the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA and the agency's internal policies.

INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

Part I: In completing the "County And State" questions list all the local governments that are responsible for local land controls where site(s) are to be evaluated.

Part III: In completing item B (Total Acres To Be Converted Indirectly), include the following:

1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them.

2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities) that will cause a direct conversion.

Part VI: Do not complete Part VI if a local site assessment is used.

Assign the maximum points for each site assessment criterion as shown in § 658.5 (b) of CFR. In cases of corridor-type projects such as transportation, powerline and flood control, criteria #5 and #6 will not apply and will, be weighed zero, however, criterion #8 will be weighed a maximum of 25 points, and criterion #11 a maximum of 25 points.

Individual Federal agencies at the national level, may assign relative weights among the 12 site assessment criteria other than those shown in the FPPA rule. In all cases where other weights are assigned relative adjustments must be made to maintain the maximum total weight points at 160.

In rating alternative sites, Federal agencies shall consider each of the criteria and assign points within the limits established in the FPPA rule. Sites most suitable for protection under these criteria will receive the highest total scores, and sites least suitable, the lowest scores.

Part VII: In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, adjust the site assessment points to a base of 160. Example: if the Site Assessment maximum is 200 points, and alternative Site "A" is rated 180 points:

$$\frac{\text{Total points assigned Site A}}{\text{Maximum points possible}} = \frac{180}{200} \times 160 = 144 \text{ points for Site "A."}$$

Emails

From: Sutcliffe, Kent - Salt Lake City, UT [mailto:Kent.Sutcliffe@ut.usda.gov]
Sent: Tuesday, August 23, 2011 11:11 AM
To: Christina Osborn
Cc: Sutcliffe, Kent - Salt Lake City, UT
Subject: RE: Coalville City Wastewater Facility

Christina,

The decision regarding mitigation is not up to NRCS. Our role is only to provide the information about important farmland impacts.

I think it is up to the federal agency providing funding, which in this case is Rural Development. As I have mentioned in previous emails, I don't think mitigation is common in small projects like this. In fact, I am not aware of a situation where mitigation was required for a project such as this.

I replied to this email on the 15th. I apologize if you didn't get it and it has held things up.

Take care,
Kent

From: Sutcliffe, Kent - Salt Lake City, UT [mailto:Kent.Sutcliffe@ut.usda.gov]
Sent: Thursday, August 11, 2011 4:30 PM
To: Christina Osborn
Subject: Automatic reply: Coalville City Wastewater Facility

Hello,

I will be out of the office until Friday 8/12/2011.

Please try my cell phone at 801-360-6807 if you need to get a hold of me before then.

For immediate assistance please contact Josephine Ojewia at 801-524-4333.

Thanks,
Kent

From: Christina Osborn
Sent: Thursday, August 11, 2011 4:30 PM
To: 'Sutcliffe, Kent - Salt Lake City, UT'
Subject: RE: Coalville City Wastewater Facility

Kent,
I received your Farmland Conversion Impact Rating for the Coalville Wastewater Facility Project that was calculated for the preferred site. As we discussed previously we do not plan any mitigation for this conversion due to the small amount of acreage involved. Does your agency concur with that finding?

Thanks for your prompt attention to this project.

Christina Osborn, P.E.
Project Engineer
J-U-B ENGINEERS, Inc.
2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com

THE J-U-B FAMILY OF COMPANIES:
www.jub.com | www.gatewaymapping.com | www.langdongroupinc.com

From: Sutcliffe, Kent - Salt Lake City, UT [mailto:Kent.Sutcliffe@ut.usda.gov]
Sent: Wednesday, August 10, 2011 10:47 AM
To: Christina Osborn
Subject: RE: Coalville City Wastewater Facility

Christina,

Farmland of Statewide Importance is treated the same way as Prime Farmland. There are several different categories of farmland, so I use the term important farmland to cover all of the protected categories of farmland.

You are correct with regard to the mitigation. The impact of these projects is small. Conversion of farmland rarely affects these types of projects.

Kent

From: Christina Osborn [mailto:cosborn@jub.com]
Sent: Wednesday, August 10, 2011 10:32 AM
To: Sutcliffe, Kent - Salt Lake City, UT
Subject: RE: Coalville City Wastewater Facility

Kent,
Sounds fine. 5 acres is a fine assumption. From the NRCS soil survey online mapper the soils in the area are listed as "farmland of statewide importance," which is not exactly important farmland. I'm not sure if this distinction matters or if you all consider that the same? From previous wastewater treatment plant projects that I've worked on that have affected farmland, the acreage was so small that no mitigation measures were proposed. Is that the likely scenario here as well?

Thanks for your prompt attention to this matter.

Christina Osborn, P.E.
Project Engineer
J-U-B ENGINEERS, Inc.
2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com

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From: Sutcliffe, Kent - Salt Lake City, UT [mailto:Kent.Sutcliffe@ut.usda.gov]
Sent: Wednesday, August 10, 2011 10:26 AM
To: Christina Osborn
Subject: RE: Coalville City Wastewater Facility

Christina,

I have the letter and the enclosed map. I guessed the impact area would be about 5 acres. If it is OK with you, I'll go ahead with an assumption of 5 acres. A fraction of the new facility will impact important farmland, so I'll go ahead and get a letter back to you.

Thanks,
Kent

From: Christina Osborn [mailto:cosborn@jub.com]
Sent: Wednesday, August 10, 2011 10:19 AM
To: Sutcliffe, Kent - Salt Lake City, UT
Subject: RE: Coalville City Wastewater Facility

Kent,
Thank you for your quick response. I enclosed a figure with the letter that you received that visually shows the preferred parcel. Did you receive the figure? The preferred parcel (shown on the figure) is approximately 5 to 6 acres in size, which is adequate for both alternatives that we have proposed.

Let me know if you have any other questions.

Christina Osborn, P.E.
Project Engineer
J-U-B ENGINEERS, Inc.
2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com

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www.jub.com | www.gatewaymapping.com | www.langdongroupinc.com

From: Sutcliffe, Kent - Salt Lake City, UT [mailto:Kent.Sutcliffe@ut.usda.gov]
Sent: Wednesday, August 10, 2011 8:46 AM
To: Christina Osborn
Subject: Coalville City Wastewater Facility

Christina,

I am working on the Coalville City Wastewater Facility review that you sent to Mike Domeier.

I was wondering how many acres the new facility will permanently impact? I couldn't find the footprint of the new facility anywhere in the letter.

Thanks,
Kent

) Kent D. Sutcliffe
(Assist. State Soil Scientist
) Utah NRCS State Office
(125 S. State Street
) SLC, UT 84138-1100
(801-524-4572 Office
) 801-360-6807 Cell#
########

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Utah Department of Environmental Quality,
Division of Air Quality

Request for Comments

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

August 8, 2011

Joel Karmazyn
Utah Department of Environmental Quality, Division of Air Quality
P.O. Box 144820
Salt Lake City, UT 84114-4820

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Joel,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

Christina Osborn

From: Joel Karmazyn <jkarmazyn@utah.gov>
Sent: Wednesday, August 10, 2011 1:41 PM
To: Christina Osborn
Subject: Coalville wastewater project

Christina,

This e-mail is in response to your letter regarding the proposed Coalville project. Generally speaking, facilities with 1 million gallon/day throughput do not produce emissions in excess of 5 tons of NAQS, or 2,000 lbs of combined HAPS or 500 lb of individual HAP which would require an Approval Order. Please refer to R307-401-9 for small source exemptions. A potential does exist if the facility back-up generators are large and would be required to run for extended periods. I suggest that you evaluate the manufacturers emissions factors for the units to make a determination on projected annual emissions or you may reference EPA AP42 factors to make your determination.

The project is subject to the fugitive dust rule R307-205. While a dust control plan is not required under the rule, we do recommend a submission because the project is responsible for controlling dust.

Please feel free to contact me with any questions.

Joel Karmazyn
Environmental Scientist
Utah Division of Air Quality
SIP/Rules Section
(801) 536-4423

Utah Department of Natural Resources,
Division of Wildlife Resources

Request for Comments

August 8, 2011

Jim Karpowitz, Director
Utah Department of Natural Resources, Division of Wildlife Resources
1594 West North Temple, Suite 2110
Salt Lake City, UT 84114-6301

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Jim,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

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Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

Christina Osborn

From: Bill James <billjames@utah.gov>
Sent: Thursday, September 15, 2011 2:48 PM
To: Christina Osborn
Cc: Judy Edwards
Subject: Re: Coalville Wastewater Treatment Plant: request for comments
Attachments: billjames_businesscard.gif

Christina,

I did check with our Assistant Habitat Manager (Kent Sorenson) and our Habitat Biologist (Pam Kramer), both based out of our Northern Region Office in Ogden. They are the DWR personnel responsible for impact analysis in the vicinity of Coalville City. They provided more detail to me, but essentially agreed with what I had mentioned previously to you. I will re-capitulate that here, to give you assurances, and to document for Coalville City (as your client) that there is no need for a letter from DWR on this subject.

We have general concerns with water quality in the Chalk Creek/Weber River area near Coalville, mostly revolving around excessive nutrient-loading in the waterways which can negatively impact fish and other aquatic organisms. Lots of phosphorous... is a Section 319 (Clean Water Act) "non-attainment" area... any practical steps to cut down on nitrates and especially phosphates entering the water would be desirable, and beneficial to fish and wildife. A new & improved effluent treatment plant likely would help the water quality, and so we tend to view the proposed project as positive. We do not have any local siting concerns with the proposed area your development plan described. We are happy to rely on the Utah Department of Environmental Quality / Division of Water Quality to ensure that the UPDES permit captures the necessary water-quality goals.

Bill James
Utah Div. of Wildlife Resources
801.538.4752 office

>>> On Thursday, September 15, 2011 at 11:18 AM, <cosborn@jub.com> wrote:

> Bill,
> We spoke last week regarding the request for comments from Division of Wildlife for the Coalville City Wastewater Treatment Plant project. You had planned to collect comments from the Ogden Regional Office and then send those and yours, which we discussed on the phone were general comments related to wastewater treatment plants. I know you had planned to be out of the office earlier in the week, but you were hoping to get comments to me by today.
>
> Please let me know what you have come up with.
>
> Much thanks in advance.
>
> **Christina Osborn, P.E.**
> *Project Engineer*
>
> **J-U-B ENGINEERS, Inc.**
> 2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
> p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com
>
> THE J-U-B FAMILY OF COMPANIES:

Christina Osborn

From: Sarah Lindsey <sarahlindsey@utah.gov>
Sent: Monday, September 19, 2011 12:06 PM
To: Christina Osborn
Cc: Scott Walker
Subject: Re: Coalville: WWTP Project
Attachments: 4078_Osborn_20110919.pdf

Christina,

Attached is a letter in response to your request. Please contact me if you have any questions.

Sincerely,
Sarah Lindsey

Utah Natural Heritage Program
Division of Wildlife Resources
1594 W. North Temple
Salt Lake City, UT 84116
(801) 538-4759

>>> "Christina Osborn" <cosborn@jub.com> 9/8/2011 2:37 PM >>>
Sarah,

I got off the phone with Bill James a short while ago and he explained that you are a good resource for site specific questions about sensitive species (if you have other information available, please advise me).
Bill was responding to my request for comments on a project which I will detail below.

The project is a wastewater treatment facility in Coalville, Utah. The attached shape files show the boundary of the planning area (the City
boundary) (file name "Coalville Boundary") as well as the boundary of the preferred project location (file name "Proposed WWTP Area"). The later is an approximately 6 acre parcel located east of I-84 and west of the rail trail. The attached Figure 1 shows the preferred location for the WWTP as well as the existing WWTP location. I explained to Bill that the existing location is on land leased from the BOR. The lease expires in 2014 and after years of communication with the BOR they have made it clear that they are unwilling to either renew the lease or sell the land to the City; hence, the necessity to relocate the WWTP.

Please provide a description of any sensitive species within the project area as well as a brief description of those in the planning area. Let me know if you need any additional information or if there are issues with the files. My knowledge of the shapefiles I'm sending is limited, they were passed to me and identified as the correct files by my GIS coworkers, but they should be compatible in ESRI Arcview.

Much thanks in advance,

Christina Osborn, P.E.

Project Engineer

J-U-B ENGINEERS, Inc.

2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119

p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com <mailto:cosborn@jub.com>

THE J-U-B FAMILY OF COMPANIES:

www.jub.com <http://www.jub.com/> | www.gatewaymapping.com <http://www.gatewaymapping.com/> | www.langdongroupinc.com <http://www.langdongroupinc.com/>

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Wildlife Resources
JAMES F. KARPOWITZ
Division Director

September 19, 2011

Christina Osborn
J-U-B Engineers, Inc.
2875 South Decker Lake Drive, Suite 575
Salt Lake City, Utah 84119

Subject: Species of Concern Near the Proposed Coalville Wastewater Treatment Facility

Dear Christina Osborn:

I am writing in response to your email dated September 8, 2011 regarding information on species of special concern proximal to the proposed wastewater treatment facility to be located in Section 8 of Township 2 North, Range 5 East, SLB&M, in Coalville, Utah.

Within a ½-mile radius of the project area noted above, the Utah Division of Wildlife Resources (UDWR) has recent records of occurrence for bald eagle and bluehead sucker. In addition, within a 2-mile radius there are recent records of occurrence for Bonneville cutthroat trout. All of the aforementioned species are included on the *Utah Sensitive Species List*.

The information provided in this letter is based on data existing in the Utah Division of Wildlife Resources' central database at the time of the request. It should not be regarded as a final statement on the occurrence of any species on or near the designated site, nor should it be considered a substitute for on-the-ground biological surveys. Moreover, because the Utah Division of Wildlife Resources' central database is continually updated, and because data requests are evaluated for the specific type of proposed action, any given response is only appropriate for its respective request.

In addition to the information you requested, other significant wildlife values might also be present on the designated site. Please contact UDWR's habitat manager for the northern region, Scott Walker, at (801) 476-2776 if you have any questions.

Please contact our office at (801) 538-4759 if you require further assistance.

Sincerely,

Sarah Lindsey
Information Manager
Utah Natural Heritage Program

cc: Scott Walker

1594 West North Temple, Suite 2110, PO Box 146301, Salt Lake City, UT 84114-6301
telephone (801) 538-4700 • facsimile (801) 538-4709 • TTY (801) 538-7458 • *www.wildlife.utah.gov*

Coalville City Floodplain Administrator

Response

COALVILLE
UTAH 1867
SUMMIT COUNTY SEAT

September 19, 2011

Christina Osborn
JUB Engineers Inc.
2875 south Decker Lake Dr. Suite 575
Salt Lake city, UT 84119

Regarding: Inquire on Floodplain Coordination

Dear Ms. Osborn,

I am the acting Floodplain Administrator for Coalville City and have reviewed the project site for the waste Water Treatment Facility as well as the data from the June 17, 2011 survey indicating that the proposed site is above the high water line. From my review I have no negative comments on the project and feel the proposed location relieves concerns associated with the existing treatment plant location.

Sincerely,

Cindy Gooch
Floodplain Administrator
Coalville City Community Development Director

cc
Mayor Duane Schmidt
City Council
Sheldon Smith, City Attorney
Chantel Pace, City Recorder
File

PO Box 188
10 North Main Street
Coalville UT 84017

P: 435.336.5981
F: 435.336.2062
coalvill@allwest.net
www.coalville.utah.gov

Utah Department of Public Safety,
Division of Emergency Services & Homeland Security

Request for Comments

August 8, 2011

Judy Watanabe, State Flood Plain Manager
Utah Department of Public Safety, Division of Emergency Services & Homeland Security
1110 State Office Building
Salt Lake City, Utah 84114

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Judy,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

Project Name: Coalville ER for USDA

Project Number: 55-11-048-003 | Floodplain

PROJECT CONVERSATION LOG

Spoke to: John Crofts

Company: State of Utah - Homeland Security / Flood plain manager

Phone #:

Date: 10:00 am

Time: 1/19/2012

Telephone ☐

Meeting ☒

Subject: Coalville FEMA/FIRM Map

Comments:

- Check with ACOE - maybe they have base flood elevations
- May need to pursue a LOMA → letter of Map Amendment using Form MT-1 that procedure is a bit easier and carves out a single property.
- or may need to pursue a LOMR or letter of Map revision that changes more of the map using form MT-2; Forms are on FEMA website.
- The Zone A is approximate without any site specific topo, no base flood elevations, no cross sections, and no delineated flood way
- Good references to revise the map include Remmit Degroot @ URS or Tom Wright @ URS

Action Items:

- He noted that USDA might just need more narrative and explaining the spillway capacity might satisfy them
- 500 yr studies are only done typically for large rivers to guide planning

J-U-B ENGINEERS, INC.

- Trevor Lindley
- Cindy Gooch
- John Crofts

} attendees

Initials TL

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

TELEPHONE MEMORANDUM

DATE:	12/19/2011	**TIME:**	1 p.m.
TO:	File	**FROM:**	Trevor R. Lindley
PHONE #:	801-538-3332	**PROJECT**:	Coalville Env. Report
SUBJECT:	Floodplain responses and phone call with John Crofts State Floodplain Manager; Utah Dept. of Public Safety, Division of Emergency Management		

JUB was concerned that since the Coalville City Planner who is the designated flood plain administrator is an outside contract employee and since that contract employee is Cindy Gooch (a JUB employee) that there was potentially a conflict between Cindy's statement about the project relative to floodplains and state floodplain guidelines. Trevor Lindley called John Crofts to discuss this concern and also to discuss the response that was received from FEMA as part of the ER agency contacts. John responded as follows:

- Mr. Crofts office provides input on projects such as these and interacts with FEMA as needed.
- John noted that it is very common that the most local jurisdiction, in the this case Coalville City, has the final say/jurisdiction on flood plain issues. Mr. Crofts provides technical guidance but typically pushes decisions about the floodplain to the local jurisdiction.
- Since Ms. Gooch is the acting City planner then her statement relative to floodplain issues is relevant and Mr. Crofts does not see a conflict.
- Mr. Crofts provided a template for a floodplain development permit. Ms. Gooch could use this template for the benefit of Coalville as project moves forward. FEMA in Denver in one of their responses indicated such a permit was necessary.

I000-00-000

J·U·B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

DATE: September 16, 2011

TO: To File

CC:

FROM: Christina Osborn

SUBJECT: Request for Comments from the State Flood Plain Manager for the Coalville City Wastewater Facilities Project

On September 16, 2011 I spoke with John Crofts, the Utah State Flood Plain Coordinator, which is part of the Utah Department of Public Safety, Division of Emergency Services and Homeland Security. I noted that I would place a memo in the file to document our phone call. He sees himself as more of a technical resource for local flood plain administrators. He suggested contacting Derek Radke, the Summit County Flood Plain Administrator, or Don Sargent Coalville City's Flood Plain Administrator. I noted that when I called the County earlier in the week they said that they handle flood plain issues only for unincorporated areas and that flood plain coordination in incorporated areas is up to the City's themselves. I told John that I plan to contact Don Sargent. Finally, John Crofts noted that he has no specific comments about the project.

U.S. Federal Emergency Management Agency

Request for Comments

August 8, 2011

Flood Plain Manager
U.S. Federal Emergency Management Agency
Federal Center, Building 710, P.O. Box 25267
Denver, Colorado 80225-0267

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Flood Plain Manager,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

Christina Osborn

From: Fitzpatrick, Barbara <Barbara.Fitzpatrick@dhs.gov>
Sent: Thursday, September 22, 2011 4:54 PM
To: Christina Osborn
Subject: RE: Request for Comments for the Coalville, UT Wastewater Facilities Project

The community will need to issue a flood plain development permit for the project. I will contact the community and discuss the possibility of requiring a CLOMR to change the FIRM.

From: Christina Osborn [mailto:cosborn@jub.com]
Sent: Thursday, September 22, 2011 3:35 PM
To: Fitzpatrick, Barbara
Subject: RE: Request for Comments for the Coalville, UT Wastewater Facilities Project

Barb,
You had planned to provide comments to be my today on this project. Please let me know as soon as possible whether you plan to comment or not on the project.

Much thanks in advance.

Christina Osborn, P.E.
Project Engineer

J-U-B ENGINEERS, Inc.
2875 South Decker Lake Dr. Suite 575, Salt Lake City, UT 84119
p | 801 886 9052 f | 801 886 9123 e | cosborn@jub.com

THE J-U-B FAMILY OF COMPANIES:
www.jub.com | www.gatewaymapping.com | www.langdongroupinc.com

---

From: Christina Osborn
Sent: Thursday, September 15, 2011 1:09 PM
To: 'barbara.fitzpatrick@dhs.gov'
Subject: Request for Comments for the Coalville, UT Wastewater Facilities Project

Barb,
Per our conversation moments ago attached are the letter requesting comments, the project description and a figure of the preferred project location for the Coalville City, UT Wastewater Facilities project.

Let me know if you need additional information. Comments by email are acceptable. If I don't hear from you by September 22, 2011 I will call you again.

Thanks in advance,

Christina Osborn, P.E.
Project Engineer

J-U-B ENGINEERS, Inc.

Mountainland Association of Governments

Request for Comments

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

August 8, 2011

Andrew Jackson, Executive Director
Mountainland Association of Governments
586 East 800 North
Orem, Utah 84062

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Andrew,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

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Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

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a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

MOUNTAINLAND
ASSOCIATION OF GOVERNMENTS
Serving Summit, Utah and Wasatch Cities & Counties

September 15, 2011

Christina Osborn
JUB Engineers, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

Christina,

This letter is in response to your request for comments on the Environmental Information Document for the Coalville Wastewater Facilities Project dated August 8, 2011. Mountainland Staff has reviewed the information provided and have made the following comments.

The placement of the new wastewater facility at the proposed location seems to be, as stated in the provided information, the best option. Our only concern would be the safety of those using the adjacent Union Pacific Rail Trail during the construction process. Proper mitigation strategies should eliminate this concern.

Mountainland Association of Governments supports Coalville City in solving its wastewater treatment issues while preparing for future growth and development.

Thank you,

Robert T. Allen, AICP
Community Planner

586 East 800 North, Stratford Park • Orem, Utah 84097-4146 • (801) 229-3800 • Fax (801) 229-3801
www.mountainland.org

Utah State Historic Preservation Office

Request for Comments

August 8, 2011

Jim Dykman/ Lori Hunsaker
Utah State Historic Preservation Officer
300 S. Rio Grande Street
Salt Lake City, UT 84101-1182

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Jim Dykman/ Lori Hunsaker,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Department of Community and Culture

JULIE FISHER
Executive Director

State History

WILSON G. MARTIN
Acting Director

October 12, 2011

James Bulkeley, P.E.
State Environmental Coordinator
USDA - Rural Development
125 South State Street #4311
Salt Lake City Utah 84138

RE: Coalville City Wastewater Facilities Project - Coalville, Utah

In reply please refer to Case No. 11-2163

Dear Mr. Bulkeley: JIM

The Utah State Historic Preservation Office received your request for our comment on the above-referenced undertaking on September 29, 2011. From the information you provided, USHPO recommends that a robust monitoring program be developed for this undertaking. The location of buried human remains discovered during the middle school project in Coalville indicated a series of buried archaeological sites in the town. USHPO office would concur with a determination of **No Historic Properties Affected,** §36CFR800.4(d)(1) if a monitoring plan is developed.

This letter serves as our comment on the determinations you have made, within the consultation process specified in §36CFR800.4. If you have questions, please contact me at 801-533-3555 or Jim Dykmann at 801-533-3523.

Sincerely,

Lori Hunsaker
Deputy State Historic Preservation Officer
Archaeology

State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Department of Community and Culture

MICHAEL HANSEN
Acting Executive Director

State History

WILSON G. MARTIN
Acting Director

August 15, 2011

Christina Osborn
J-U-B ENGINEERS, Inc.
2875 South Decker Lake Drive, Suite 575
Salt Lake City Utah 84119

RE: Coalville City Wastewater Facilities Project

In reply please refer to Case No. 11-1706

Dear Ms. Osborn:

The Utah State Historic Preservation Office received your report on August 9, 2011. We have not yet received a request for review of the undertaking from either a federal or state agency. We will await an agency letter regarding this undertaking. However, the report will be removed from our active case files in 90 calendar days.

This does not constitute formal consultation under §36CFR800.4 or U.A.C. 9-8-404. If you have questions, please contact me at 801-533-3555 or Jim Dykmann at 801-533-3523.

Sincerely,

Lori Hunsaker
Deputy State Historic Preservation Officer
Archaeology

Uintah and Ouray Ute Indian Reservation

Request for Comments

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

August 8, 2011

Ute Indian Business Committee
Uintah & Ouray Ute Indian Reservation
P.O. Box 190
Fort Duchesne, UT 84026

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Ute Indian Business Committee,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

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Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

No comments were received.

Shoshone Tribe of the Wind River Reservation

Request for Comments

August 8, 2011

Shoshone Business Committee Chairperson
Shoshone Tribe of the Wind River Reservation, Wyoming
PO Box 217
Fort Washakie, WY 82514

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Shoshone Business Committee Chairperson,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

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Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

August 8, 2011

Glenda Trosper, Director Cultural Center or Shoshone Tribal Cultural Center
Shoshone Tribe of the Wind River Reservation, Wyoming
P.O. Box 1008
Fort Washakie, WY 82514

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Glenda,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

No comments were received.

Shoshone-Bannock Tribe

Request for Comments

August 8, 2011

Nathan Smith, Fort Hall Business Council Chairperson
Shoshone-Bannock Tribe
P.O. Box 306
Fort Hall, ID 83203-0306

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Nathan,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

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Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

August 8, 2011

Caroline Smith, Cultural Resources Coordinator
Shoshone-Bannock Tribe
P.O. Box 306
Fort Hall, ID 83203

Subject: Environmental Information Document for Coalville City Wastewater Facilities Project
Request for Comments

Dear Caroline,

Coalville City is in the process of performing an environmental review to assess the possible environmental impacts of a proposed Wastewater Facilities Project in Coalville City, Summit County, Utah. The environmental review is being performed pursuant to the requirements of the National Environmental Policy Act (NEPA) for the USDA-Rural Development and the State of Utah Department of Environmental Quality (UDEQ).

The proposed project is to address concerns with the treatment plant location, which is currently located on land with a soon to expire (October 2014) Bureau of Reclamation (BOR) lease, aging infrastructure and potentially more restrictive discharge limits. A project description with more detailed information is enclosed.

The proposed project is anticipated to be constructed at a site on the western edge of the City, and south of the Existing Wastewater Treatment Facility and Chalk Creek (see attached Figure 1). This location is not on Federal land, and therefore will address the BOR's concerns with the existing site. This location will take advantage of the natural topography of the land and will allow the wastewater to flow towards the wastewater facility with minimal pumping of raw wastewater. The project will be constructed on land and right-of-way to be acquired by Coalville City. Enclosed is a map that depicts the proposed project's area of potential effect for construction activities.

Coalville City requests that your agency review the proposed project for potential impacts within the project area. Please provide any recommendations you may have to mitigate or avoid these impacts. Written comments or questions concerning the proposed action should be addressed to Christina Osborn at the following address:

Christina Osborn
J-U-B ENGINEERS, Inc
2875 South Decker Lake Drive, Suite 575
Salt Lake City, UT, 84119

We would appreciate a response within 30 days of the date of this letter. If you need any further information or wish to discuss the project, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you for your consideration in this matter.

a 2875 S. Decker Lake Dr., Suite 575, Salt Lake City, UT 84119 *p* 801 886 9052 *f* 801 886 9123 *w* www.jub.com

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Project Description and Map of the Existing and Proposed Location of Wastewater Facilities

Response

No comments were received.

APPENDIX J
WETLAND DETERMINATION

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO CA 95814-2922

REPLY TO
ATTENTION OF

January 17, 2012

Regulatory Division SPK-2012-00063-UO

Duane Schmidt
Coalville City
P.O. Box 188
Coalville, Utah 84017

Dear Mr. Schmidt:

We are responding to your request for a preliminary jurisdictional determination (JD), in accordance with our Regulatory Guidance Letter (RGL) 08-02, for the Coalville Wastewater Treatment Plant site. The approximately 6.8-acre site is located east of the I-80 within Section 8, Township 2 North, Range 5 East, Salt Lake Meridian, Latitude 40.92°, Longitude -111.40°, Coalville City, Summit County, Utah.

Based on available information, we concur with the amount and location of wetlands and/or other water bodies on the site as depicted on the 11/3/2011, Coalville Wastewater Treatment Plant drawing, prepared by SWCA Consultants. The approximately 0.3 acres of wetlands present within the survey area are potential waters of the United States regulated under Section 404 of the Clean Water Act.

A copy of our RGL 08-02 Preliminary Jurisdictional Determination Form for this site is enclosed. Please sign and return a copy of the completed form to this office. Once we receive a copy of the form with your signature we can accept and process a Pre-Construction Notification or permit application for your proposed project.

You should not start any work in potentially jurisdictional waters of the United States unless you have Department of the Army permit authorization for the activity. You may request an approved JD for this site at any time prior to starting work within waters. In certain circumstances, as described in RGL 08-02, an approved JD may later be necessary.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This preliminary determination has been conducted to identify the potential limits of wetlands and other water bodies which may be subject to Corps of Engineers' jurisdiction for the particular site identified in this request. A Notification of Appeal Process and Request for Appeal form is enclosed to notify you of your options with this determination. This determination may not be valid for the wetland conservation provisions of the Food Security Act

of 1985. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under *Customer Service Survey*.

Please refer to identification number SPK-2012-00063-UO in any correspondence concerning this project. If you have any questions, please contact Hollis Jencks at the Utah Regulatory Office 533 West 2600 South, Suite 150, Bountiful, Utah 84010, email *Hollis.G.Jencks@usace.army.mil*, or telephone 801-295-8380, extension 18.

Sincerely,

John Urbanic
Senior Project Manager
Utah Regulatory Office

Enclosures

Copy furnished:

Christina Osborn, JUB Engineers Inc., 2875 Decker Lake Drive, Suite 575, Salt Lake City, Utah 84119

Brian Nicholson, SWCA Environmental Consultants, 257 East 200 South, Suite 200, Salt Lake City, Utah 84111

Coalville Wastewater Treatment Plant
Wetland Delineation

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

January 5, 2012

Hollis Jencks, Project Manager
U.S. Army Corps of Engineers (USACOE)
Utah Regulatory Office
533 West 2600 South, Suite 150
Bountiful, UT 84010

Subject: Coalville Proposed Wastewater Treatment Plant Project: Wetlands

Dear Hollis,

Attached you will find a wetland determination conducted by SWCA Environmental Consultants (SWCA) at the site of the proposed wastewater treatment facility in Coalville, UT on September 26, 2011. The findings in the determination were obtained using the U.S. Army Corps of Engineers (USACOE) protocol for identifying wetlands and other jurisdictional waters in the Arid West. Further, you verified the determination during a November 3, 2011 site visit with J-U-B Engineers and SWCA.

We are requesting that you write a confirmation letter concurring with the findings in the wetland determination. Please address and send the letter to the Mayor of Coalville City, Duane Schmidt:

Mayor Duane Schmidt
Coalville City
P.O. Box 188
Coalville, UT 84017

Please send a copy to J-U-B Engineers as well:

Christina Osborn
2875 Decker Lake Drive, Suite 575
Salt Lake City, UT 84119

If you need to discuss the project further, please contact Christina Osborn by phone at 801-886-9052 or by email at cosborn@jub.com. Thank you in advance for the confirmation letter.

Sincerely,
J-U-B ENGINEERS, Inc.

Christina Osborn
Project Engineer

Enclosures: Wetland Determination letter, photos, figure and form

\\Kays\public\Projects\JUB\Coalville\55-11-048 USDA WWTP Application\Text\ER\Wetland Determination

SWCA®
ENVIRONMENTAL CONSULTANTS
Sound Science. Creative Solutions.

Salt Lake City Office
257 East 200 South, Suite 200
Salt Lake City, UT 84111
Tel 801.322.4307 Fax 801.322.4308
www.swca.com

November 12, 2011

Trevor Lindley, P.E.
J-U-B Engineers, Inc.
466 North 900 West
Kaysville, UT 84037

Dear Mr. Lindley:

This letter and attachment present the findings of a wetland determination conducted by SWCA Environmental Consultants (SWCA) at the site of a proposed wastewater treatment facility in Coalville, UT on September 26, 2011. Approximately 0.3 acre of wetlands is found within the 6.8-acre study area. These findings were obtained using the U.S. Army Corps of Engineers (USACE) protocol for identifying wetlands and other jurisdictional waters in the Arid West and verified by Hollis Jencks on November 3, 2011. While this letter report is an abridged version of a more detailed wetland delineation report it does include both a map and dataforms and should meet the USACE's minimum standards for these documents. I recommend requesting a confirmation letter of these findings for your internal project file and use during the USDA funding process, as needed.

The location of the proposed facility is above the high water line (spillway elevation equals 5563.20 feet) of Echo Reservoir. According to FEMA Flood Insurance Rate Map (No. 49043C0275C) the site is within Zone A although no base flood elevations are determined by FEMA. National Wetland Inventory (NWI) data identify one palustrine emergent seasonally flooded (PEMC) wetland within SWCA's study area and Natural Resource Conservation Service data indicate that the entire site is composed of Wanship-Kovich loam, a hydric soil. Historically the site is irrigated to grow agricultural grasses. Given the conditions and existing data described above it is prudent to conduct a wetland determination as part of the Environmental Report process required by one potential funding partner (United States Department of Agriculture.)

Brian Nicholson and Lynda Sperry conducted the wetland determination and evaluated vegetation, soil and hydrology indicators. Mr. Nicholson is a wetlands specialist with 6 years of experience conducting wetland delineations in Utah. Ms. Sperry is botanist with over 10 years of experience in plant identification. A detailed field-based determination

indicates that the majority of the site is upland, not wetland, including the area central to the site which was identified by the NWI as PEMC. As illustrated in Attachment 1, small areas of wetlands exist in the southeast and southwest corner of the study area. The former appears to be associated with a blocked drain originating in the City of Coalville and drainage from adjacent land to the south. The latter is most likely a component of the historic Weber River floodplain and is topographically lower than the rest of the study area.

Using the USACE paired sample point method, SWCA established preliminary boundaries between uplands and wetlands. In general, uplands on the site are dominated by timothy (*Phleum pretense*), slender wheatgrass (*Elymus trachycaulus*), other agricultural grasses, and small amounts of fowl mannagrass (*Glyceria striata)*. While SWCA occasionally found hydrophytic (wetland) plants in the uplands, there were no indicators of wetland hydrology such as a high water table or saturation. Some areas of uplands had hydric soil characteristics, e.g. depleted matrix with redoximorphic features, which is not surprising given the history of irrigation and proximity to the Weber River. However to be considered a wetland all three characteristics, hydrophytic vegetation community, hydric soils, and hydrology must be present. The portion of the study area identified as a wetland in the NWI dataset (see Attachment 1) exhibited no wetland characteristics.

Wetland 1 (0.08 acre), a palustrine emergent (PEM) system, is dominated by reed canary grass (*Phalaris arundinacea*), an obligate wetlands species. Other wetland plants include sedges (*Carex* spp.), arctic rush (*Juncus arcticus*), and smooth horsetail (*Equisetum laevigatum*). See Attachment 2.Soils have a depleted matrix with redoximorphic features, an indicator of anaerobic conditions caused by saturation and considered a hydric soil indicator. At the time of the site visit, the dry season water table was 18 inches from the soil surface which is considered an indicator of wetland hydrology given the plant species found in this location.

Wetland 2 (0.05 acre), a palustrine emergent (PEM) system, is dominated by sedges (Carex spp.) which are typically obligate wetland plants and foxtail barley (*Hordeum jubatum*). See Attachment 2.The soil in low areas of Wetland 2 is a histosol, an organic material also known as peat and field indicator of hydric soils. At the time of the site visit, the dry season water table was within 24 inches of the soil surface and SWCA recorded hydrogen sulfide odor. Both are indicators of wetland hydrology especially given the soil type and plant species found at this location.

SWCA
ENVIRONMENTAL CONSULTANTS

Wetlands 3 and 4 (0.09 and 0.08, respectively) formed in a borrow area on the west side of a pre-existing railroad grade, now a converted trail. These wetlands contain standing water and emergent vegetation. They are included within the study area in case the access road to the proposed facility needs to be improved and under this condition requires a Section 404 permit or appropriate best management practice, e.g., sediment control fencing.

It is SWCA's professional opinion that due to the proximity and connectivity of these wetlands to the Weber River they would be regulated under Section 404 of the Clean Water Act. Any discharge of fill material to wetland resources illustrated in Attachment 1 would require authorization by the USACE preceded by submittal of a formal wetland delineation report. More specifically, if the total area of fill is under 0.5 acre and conditions such as avoidance and minimization are met, impacts can be permitted using the Nationwide Permit program, a more streamlined process. Impacts greater than 0.5 acre require an Individual Permit, a more intensive process, which takes approximately 120 days and is subject to a public comment period. Work in non-wetland areas does not require a Section 404 permit but may be subject to other state or federal regulations. SWCA appreciates the opportunity to provide environmental services to J-U-B Engineers, Inc. and the City of Coalville. Please contact me if you have any question regarding this wetland determination.

Sincerely,

Brian Nicholson

Brian Nicholson

Survey Marker
Study Area

Data Points
Upland
Wetland

SWCA Wetland Determination
PEM

NWI Classifications
Freshwater Emergent Wetland
Other

N

0 200 400 Feet

0 50 100 Meters

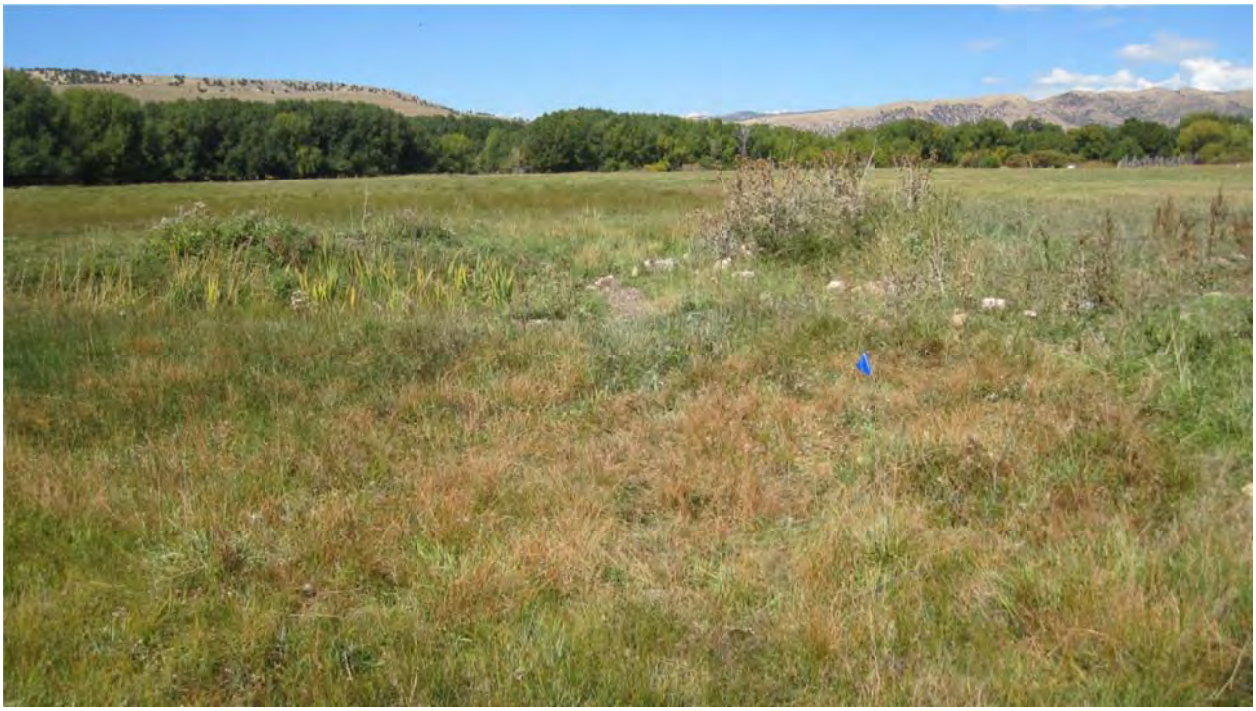
Imagery taken from National Agricultural Imagery Program (NAIP) natural color aerial photography 1-

Contains Privileged Information: Do Not Release

SWCA ENVIRONMENTAL CONSULTANTS

Attachment 2. Site Photographs

Wetland 1



Wetland 2

General Upland Site Conditions

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Coalville JUB Delineation City/County: Summit Sampling Date: 9/26/2011

Applicant/Owner: Private Landowner State: UT Sampling Point: 1

Investigator(s): BTN and LS Section, Township, Range:

Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): D N: 4529647.9000 E: 466129.7000 Datum: NAD 1983

Soil Map Unit Name: Wanship-Kovich loam NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	x
Hydric Soil Present?	Yes	x	No	
Wetland Hydrology Present?	Yes		No	X

Is the Sampled Area within a Wetland? **Yes** _____ **No** **x**

Remarks: NA means Not Applicable (used on plowed and planted agricultural crop sites in reference to the vegetation).
Precipitation prior to fieldwork:
Unmowed edge of agricultural field

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
Total Cover:	0%		
Sapling/Shrub Stratum (Plot size: 10' r)			
1.			
2.			
3.			
4.			
5.			
Total Cover:	0%		
Herb Stratum (Plot size: 5' r)			
1. *Juncus arcticus*	5%	No	FACW
2. *Phleum pratense*	50%	Yes	FACU
3. *Glyceria striata*	10%	No	OBL
4. *Phalaris arundinacea*	5%	No	OBL
5. *Elymus trachycaulus*	30%	Yes	FACU
6.			
7.			
8.			
Total Cover:	0%		
Woody Vine Stratum (Plot size: 10' r)			
1.			
2.			
Total Cover:	0%		

% Bare Ground in Herb Stratum 100% % Cover of Biotic Crust 0%

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	15	x 1 =	15
FACW species	5	x 2 =	10
FAC species	0	x 3 =	0
FACU species	80	x 4 =	320
UPL species	0	x 5 =	0
Column Totals:	100 (A)		345 (B)

Prevalence Index = B/A = 3.45

Hydrophytic Vegetation Indicators:

_____ Dominance Test is >50%

_____ Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** _____ **No** **X**

Remarks: *identifies indicator status is tentative Entered by: btn QC by:

Heavy in ag grasses

SOIL

Sampling Point: **1**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10 YR 5/3	80	10YR 5/8	5	C	M	CL	
			10 YR 3/2	15	D	M		
6-18	10 yr 5/2	80	10 yr 6/8	10	C	M	CL	
			10 YR 4/2	10	D	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- x Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distrubed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: s = sand; si = silt; c = clay; l = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)
Natural drained, Heavily irrigated. Hard clay soils. Unlikley water table at 24 inches.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches): ___	
Water Table Present?	Yes ___	No X	Depth (inches): ___	**Wetland Hydrology Present?**
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___	**Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Heavily irrigated

Entered by: btn QC by: ___

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Coalville JUB Delineation City/County: Summit Sampling Date: 9/26/2011

Applicant/Owner: Private Landowner State: UT Sampling Point: 2

Investigator(s): BTN and LS Section, Township, Range: S26 T1N R40E

Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): None Slope (%): 2

Subregion (LRR): D N: 4529647.9000 E: 466129.7000 Datum: NAD 1983

Soil Map Unit Name: Wanship-Kovich loam NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X
Hydric Soil Present?	Yes	X	No	
Wetland Hydrology Present?	Yes	X	No	

Is the Sampled Area within a Wetland? **Yes** ____ **No** **X**

Remarks: NA means Not Applicable (used on plowed and planted agricultural crop sites in reference to the vegetation).
Precipitation prior to fieldwork:

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
Total Cover:	0%		
Sapling/Shrub Stratum (Plot size: 10' r)			
1.			
2.			
3.			
4.			
5.			
Total Cover:	0%		
Herb Stratum (Plot size: 5' r)			
1. *Carex spp*	5%	No	OBL
2. *Phleum pratense*	50%	Yes	FACU
3. *Glyceria striata*	10%	No	OBL
4. *Trifolium hybridum*	5%	No	FACU
5. *Phalaris arundinacea*	5%	No	OBL
6. *Elymus trachycaulis*	30%	Yes	FACU
7. *Taraxacum officinale*	5%	No	FACU
8.			
Total Cover:	110%		
Woody Vine Stratum (Plot size: 10' r)			
1.			
2.			
Total Cover:	0%		

% Bare Ground in Herb Stratum 0% % Cover of Biotic Crust 0%

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	20	x 1 =	20
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	90	x 4 =	360
UPL species	0	x 5 =	0
Column Totals:	110 (A)		380 (B)

Prevalence Index = B/A = 3.45

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** **X** **No** ____

Remarks: *identifies indicator status is tentative Entered by: btn QC by:

Veg is mowed or grazed. Dificult to identify. Used some species composition information from Point 1 which was unmowed or grazed

SOIL

Sampling Point: **2**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10 YR 4/2	100	-	-	C	M	CL	
6-9	10 YR 4/2	100			C	M	CL	
9-20	7.5 YR 4/1	95	7.5 yr 5/6	5	C	M	CL	
20-24	10 YR 5/2	95	7.5 YR 5/6	5	C	RC	SCL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distrubed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: s = sand; si = silt; c = clay; l = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches): ___	
Water Table Present?	Yes ___	No X	Depth (inches): ___	**Wetland Hydrology Present?**
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___	**Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Entered by: btn QC by: ___

Oxidized rhizospheres may be a function of irrigation as they were at approximatley 10 inches of the soil surface. Unlikely to be a function of groundwater

o

Project/Site: Coalville JUB Delineation City/County: Summit Sampling Date: 9/26/2011

Applicant/Owner: Private Landowner State: UT Sampling Point: 3

Investigator(s): BTN and LS Section, Township, Range: S25 T1N R40E

Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): none Slope (%): 2

Subregion (LRR): D N: 4529647.9000 E: 466129.7000 Datum: NAD 1983

Soil Map Unit Name: Wanship-Kovich loam NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)

Are Vegetation ,Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation ,Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?**	**Yes X No**
Hydric Soil Present?	Yes X	No		
Wetland Hydrology Present?	Yes X	No		

Remarks: NA means Not Applicable (used on plowed and planted agricultural crop sites in reference to the vegetation).
Precipitation prior to fieldwork:
Broken irrigation pipe caused flooding in the last week or two. Still some standing water in ditch. Gravel drain added to aid drainage. Ponding in the vicinity caused by blockage resulting from utility line placement downslope.

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
Total Cover:	0%		
Sapling/Shrub Stratum (Plot size: 10' r)			
1.			
2.			
3.			
4.			
5.			
Total Cover:	0%		
Herb Stratum (Plot size: 5' r)			
1. *Phleum pratense*	35%	Yes	FACU
2. *Juncus arcticus*	5%	NO	FACW
3. *Melilotus officinalis*	1%	NO	FACU
4. *Phalaris arundinacea*	20%	YES	OBL
5. *Elymus trachycaulis*	10%	NO	FACU
6. *Carex spp*	20%	Yes	OBL
7. *Equisetum laevigatum*	5%	No	FACW
8. *Glyceria striata*	5%	No	OBL
Total Cover:	101%		
Woody Vine Stratum (Plot size: 10' r)			
1.			
2.			
Total Cover:	0%		
% Bare Ground in Herb Stratum 0%	% Cover of Biotic Crust 0%		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species 45	x 1 =	45
FACW species 10	x 2 =	20
FAC species 0	x 3 =	0
FACU species 46	x 4 =	184
UPL species 0	x 5 =	0
Column Totals: 101 (A)		249 (B)

Prevalence Index = B/A = 2.47

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks: *identifies indicator status is tentative Entered by: btn QC by:

SOIL

Sampling Point: **3**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10 YR 4/2	100	10 YR 5/6	1	C	M	CL	Lots of gravel

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- x Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distrubed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: s = sand; si = silt; c = clay; l = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	X	No	___	Depth (inches): 18"
Saturation Present? (includes capillary fringe)	Yes	X	No	___	Depth (inches): 18"

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Entered by: btn QC by: ___

Gets some hydrology from a storm water ditch. A separate ditch also ponds water

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Coalville JUB Delineation City/County: Summit Sampling Date: 9/26/2011

Applicant/Owner: Private Landowner State: UT Sampling Point: 4

Investigator(s): BTN and LS Section, Township, Range: S25 T1N R40E

Landform (hillslope, terrace, etc.): bench Local relief (concave, convex, none): convex Slope (%): 0-1

Subregion (LRR): D N: 4529647.9000 E: 466129.7000 Datum: NAD 1983

Soil Map Unit Name: Wanship-Kovich loam NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No x	**Is the Sampled Area within a Wetland?** Yes _____ No x
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes	No x	

Remarks: NA means Not Applicable (used on plowed and planted agricultural crop sites in reference to the vegetation).
Precipitation prior to fieldwork:

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
Total Cover:	0%		
Sapling/Shrub Stratum (Plot size: 10' r)			
1.			
2.			
3.			
4.			
5.			
Total Cover:	0%		
Herb Stratum (Plot size: 5' r)			
1. *Hordeum jubatum*	20%	Yes	FAC
2. *Carduus nutans*	20%	Yes	NL
3. *Grindelia squarrosa*	20%	Yes	FACU
4. *Euphorbia*	tr	No	NL
5.			
6.			
7.			
8.			
Total Cover:	60%		
Woody Vine Stratum (Plot size: 10' r)			
1.			
2.			
Total Cover:	0%		

% Bare Ground in Herb Stratum 40% % Cover of Biotic Crust 0%

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species 0	x 1 =	0
FACW species 0	x 2 =	0
FAC species 20	x 3 =	60
FACU species 20	x 4 =	80
UPL species 0	x 5 =	0
Column Totals: 40 (A)		140 (B)

Prevalence Index = B/A = 3.50

Hydrophytic Vegetation Indicators:

_____ Dominance Test is >50%

_____ Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No x

Remarks: *identifies indicator status is tentative Entered by: btn QC by:

SOIL

Sampling Point: **4**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10 YR 4/2	100	-	-	C	M	CL	
6-9	10 YR 4/2	100			C	M	CL	
9-20	7.5 YR 4/1	95	7.5 yr 5/6	5	C	M	CL	
20-24	10 YR 5/2	95	7.5 YR 5/6	5	C	RC	SCL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- x Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distrubed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: s = sand; si = silt; c = clay; l = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No x	Depth (inches): ___	
Water Table Present?	Yes ___	No x	Depth (inches): ___	**Wetland Hydrology Present?**
Saturation Present? (includes capillary fringe)	Yes ___	No x	Depth (inches): ___	**Yes** ___ **No** x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Located partially on old fill material

Entered by: btn QC by: ___

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Coalville JUB Delineation City/County: Summit Sampling Date: 9/26/2011

Applicant/Owner: Private Landowner State: UT Sampling Point: 5

Investigator(s): BTN and LS Section, Township, Range: S25 T1N R40E

Landform (hillslope, terrace, etc.): flooplain Local relief (concave, convex, none): concave Slope (%): 1

Subregion (LRR): D N: 4529647.9000 E: 466129.7000 Datum: NAD 1983

Soil Map Unit Name: Wanship-Kovich loam NWI classification: PEM peat forming

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No	
Hydric Soil Present?	Yes	X	No	**Is the Sampled Area within a Wetland?** Yes X No
Wetland Hydrology Present?	Yes	X	No	

Remarks: NA means Not Applicable (used on plowed and planted agricultural crop sites in reference to the vegetation).
Precipitation prior to fieldwork:
Old floodplain . Peaty soils

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
Total Cover:	0%		
Sapling/Shrub Stratum (Plot size: 10' r)			
1.			
2.			
3.			
4.			
5.			
Total Cover:	0%		
Herb Stratum (Plot size: 5' r)			
1. *Potentilla anserina*	10%	No	OBL
2. *Melilotus officinalis*	2%	No	FACU
3. *Juncus arcticus*	50%	Yes	FACW
4. *Hordeum jubatum*	5%	No	FAC
5. *Carex spp*	20%	Yes	OBL
6. *Triglochin maritima*	5%	No	OBL
7. *Poa Palustris*	5%	No	FACW
8.			
Total Cover:	97%		
Woody Vine Stratum (Plot size: 10' r)			
1.			
2.			
Total Cover:	0%		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	35	x 1 =	35
FACW species	55	x 2 =	110
FAC species	5	x 3 =	15
FACU species	2	x 4 =	8
UPL species	0	x 5 =	0
Column Totals:	97 (A)		168 (B)

Prevalence Index = B/A = 1.73

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks: *identifies indicator status is tentative Entered by: btn QC by:

SOIL

Sampling Point: **5**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-14	10 YR 3/3	100	-	-	-	-	Organic	Brown Peat fibrous
14-24	2.5 Y 5/1	100	-	-	-	-	Clay	H2S

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- X Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distrubed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: s = sand; si = silt; c = clay; l = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

Possibly a partially desiccated histosol

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- X Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches): ___	
Water Table Present?	Yes ___	No X	Depth (inches): ___	**Wetland Hydrology Present?**
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___	**Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Moist at about 20 inches.

Entered by: btn QC by: ___

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Coalville JUB Delineation City/County: Summit Sampling Date: 9/26/2011

Applicant/Owner: Private Landowner State: UT Sampling Point: 6

Investigator(s): BTN and LS Section, Township, Range: S31 T1N R41E

Landform (hillslope, terrace, etc.): terrace ag field Local relief (concave, convex, none): convex Slope (%): 2

Subregion (LRR): D N: 4529647.9000 E: 466129.7000 Datum: NAD 1983

Soil Map Unit Name: Wanship-Kovich loam NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes	No X	

Remarks: NA means Not Applicable (used on plowed and planted agricultural crop sites in reference to the vegetation).
Precipitation prior to fieldwork:
ag field

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
Total Cover:	0%		
Sapling/Shrub Stratum (Plot size: 10' r)			
1.			
2.			
3.			
4.			
5.			
Total Cover:	0%		
Herb Stratum (Plot size: 5' r)			
1. *Carex spp*	5%	No	OBL
2. *Phleum pratense*	30%	Yes	FACU
3. *Glyceria striata*	10%	Yes	OBL
4. *Trifolium hybridum*	5%	No	FACU
5. *Juncus arcticus*	5%	No	FACW
6. *Elymus trachycaulis*	10%	Yes	FACU
7. *Taraxacum officinale*	20%	Yes	FACU
8.			
Total Cover:	85%		
Woody Vine Stratum (Plot size: 10' r)			
1.			
2.			
Total Cover:	0%		

% Bare Ground in Herb Stratum 15% % Cover of Biotic Crust 0%

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species 15	x 1 =	15
FACW species 5	x 2 =	10
FAC species 0	x 3 =	0
FACU species 65	x 4 =	260
UPL species 0	x 5 =	0
Column Totals: 85 (A)		285 (B)

Prevalence Index = B/A = 3.35

Hydrophytic Vegetation Indicators:

_____ Dominance Test is >50%

_____ Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: *identifies indicator status is tentative Entered by: btn QC by:

SOIL

Sampling Point: **6**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10 YR 5/3	80	10YR 5/8	5	C	M	CL	
			10 YR 3/2	15	D	M		
6-18	10 yr 5/2	80	10 yr 6/8	10	C	M	CL	
			10 YR 4/2	10	D	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless distrubed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: s = sand; si = silt; c = clay; l = loam or loamy; co = coarse; f = fine; vf = very fine; + = heavy (more clay); - = light (less clay)

HYDROLOGY

Wetland Hydrology Indicators:

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- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches): ___	
Water Table Present?	Yes ___	No X	Depth (inches): ___	**Wetland Hydrology Present?**
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___	**Yes** ___ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Ag field slopes done to old floodplain.

Entered by: btn QC by: ___