



**VIA:** E-mail

January 17, 2018

Daron Haddock, Environmental Manager  
Utah Coal Regulatory Program  
STATE OF UTAH  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

**RE:** Wellington Prep Plant (C/007/0012): Response to the Midterm Permit Review

Dear Mr. Haddock:

Attached please find Price River Terminal's response to DOGM's Midterm Review comments and deficiencies dated November 22, 2017. The attachment includes:

- Cover letter
- C1 and C2 forms
- Deficiencies, Comments & Instructions for insertion to the MRP.
- Requested changes and insertions to the MRP.

The requested changes were limited to reclamation costs shown in Appendix J; these changes changes are shown in **orange text**.

Thank you for your patience and also to Bev Wisner for the help with the bond calculations in this submittal.

Let me know if you have questions and comments.

Sincerely,

Patrick D. Collins, Ph.D.  
Resident Agent

Attachments

cc: T. Stanley (PRT)

## APPLICATION FOR COAL PERMIT PROCESSING

Permit Change  New Permit  Renewal  Exploration  Bond Release  Transfer

**Permittee:** Price River Terminal  
**Mine:** Wellington Preparation Plant **Permit Number:** C/007/012  
**Title:** Midterm Permit Review Response (January 17, 2018)

**Description,** Include reason for application and timing required to implement:

**Response to DOGM deficiencies in in Midterm Permit Review (January 17, 2018)**

**Instructions:** If you answer yes to any of the first eight questions, this application may require Public Notice publication.

- Yes  No 1. Change in the size of the Permit Area? Acres: \_\_\_\_\_ Disturbed Area: \_\_\_\_\_  increase  decrease.
- Yes  No 2. Is the application submitted as a result of a Division Order? DO# \_\_\_\_\_
- Yes  No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes  No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes  No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes  No 6. Does the application require or include public notice publication?
- Yes  No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes  No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes  No 9. Is the application submitted as a result of a Violation? NOV # \_\_\_\_\_
- Yes  No 10. Is the application submitted as a result of other laws or regulations or policies?

*Explain:* \_\_\_\_\_

- Yes  No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes  No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes  No 13. Does the application require or include collection and reporting of any baseline information?
- Yes  No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes  No 15. Does the application require or include soil removal, storage or placement?
- Yes  No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes  No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes  No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes  No 19. Does the application require or include certified designs, maps or calculation?
- Yes  No 20. Does the application require or include subsidence control or monitoring?
- Yes  No 21. Have reclamation costs for bonding been provided?
- Yes  No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes  No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
- Yes  No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

**Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you.** (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations herein.

*Patricia Collins*

Print Name \_\_\_\_\_ Position \_\_\_\_\_ Date \_\_\_\_\_ Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 17 day of January, 2018

Notary Public: Marcie S. Clark, state of Utah.

My commission Expires: 6-21-2018  
 Commission Number: 677113  
 Address: 110 S. Main  
 City: Springville State: UT Zip: 84663



<b>For Office Use Only:</b>	<b>Assigned Tracking Number:</b>	<b>Received by Oil, Gas &amp; Mining</b>
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# Wellington Preparation Plant (C/007/0012)

## Midterm Permit Review Response

### Deficiencies, Comments & MRP Insertion Instructions

January 17, 2018

(Follow up to October 31, 2017 Version)

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#### Price River Terminal, LLC

3215 West 4th Street  
Fort Worth, Texas 76107

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The following, dated January 17, 2018, are responses to deficiencies provided by the State of Utah, Division of Oil, Gas & Mining (DOGM), dated September 27, 2017, as a result of their Midterm Permit Review of Wellington Prep Plant's Mining & Reclamation Plan (MRP). Price River Terminal (PRT) comments along with instructions for insertion to the MRP are also included below.

**NOTES:** This document provides the follow up responses to DOGM comments (dated November 22, 2017) regarding PRT's ~~Redline~~ Strike version (dated October 31, 2017). The requested changes were limited to reclamation costs shown in **Appendix J**; these changes are shown in **orange text**.

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#### **DOG M Deficiencies:**

*The application does not meet the State of Utah R645 requirements for Bonding Determination of Amount.*

*R645-303-211, R645-301-830.1 00 through -830.140, R645-301-830.41 o The permittee must correct the 3 errors identified below.*

*First: On page 2 of 13 of the Demo sheets, Refuse Pipeline 01, the On site disposal, RS Means reference 02 41 16 17 4200, correct the on site disposal cost to \$11.40.*

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Mt. Nebo Scientific, Inc.  
P.O. Box 337, 330 East 400 South, Suite 6  
Springville, Utah 84663



Second: On the Earthwork sheet; Site Grading West of Price River 204, Provide the acreage and re-analyze the time and cost, then provide the correct number of hours to complete the Site Grading West of Price River. Any notes that represent bond reclamation on this sheet will need to be deleted as no bond release has taken place.

Third: On the Earthwork sheet; Grade and Rip Topsoil Borrow Area 009, provide an explanation why the extra D9R scheduled for 35 hours is no longer provided or needed.

Note: An additional minimum bond will need to be posted of \$485,000.00

### **PRT Comments:**

- The changes have been made in Appendix J in the sections mentioned above.
- Also the colored font that showed changes in the October 31, 2017 submittal that were approved have been changed to black font.

### **MRP Insertion Instructions:**

- Appendix J, (01/17/18) of this submittal replaces
- Appendix J, (10/31/17) of the last submittal.



# APPENDIX J

## Cost of Reclamation

January 17, 2018



WELLINGTON PREPARATION PLANT

C/007/0012

Bond Amount

WELLINGTON PREP PLANT C/007/012

**SUMMARY**

**Bonding Calculations**

Direct Costs

Subtotal Demolition and Removal	\$59,476.00
Subtotal Backfilling and Grading	\$3,172,036.00
Subtotal Revegetation	\$417,420.00
<b>Direct Costs in 2017 Dollars</b>	<b>\$3,648,932.00</b>

Indirect Costs

Mob/Demob	\$364,893.00	10.0%
Contingency	\$182,447.00	5.0%
Engineering Redesign	\$91,223.00	2.5%
Main Office Expense	\$248,127.00	6.8%
Project Mainagement Fee	\$91,223.00	2.5%
<b>Subtotal Indirect Costs</b>	<b>\$977,913.00</b>	<b>26.8%</b>

<b>Total Cost</b>	<b>\$4,626,845.00</b>	<b>2017 Dollars</b>
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Escalation factor		0
Number of years		5
Escalation	\$0.00	

Reclamation Cost Escalated	\$4,626,845.00	2022 Dollars
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Dollar Year 2017

**Bond Amount (rounded up to next \$1,000) \$4,627,000.00**

Bond Posted 4/16/13, updated 10/31/17 \$4,142,000.00

Difference Between Cost Estimate and Bond **-\$485,000.00**

Percent Difference **-10.48%**

# *Demolition*



Description	Cost
Refuse Pipeline 01	11759
Pumphouse 02*	0
Powerline East 03	7750
Clear Water Dike 04	20153
Wash Plant 05	4005
* Column Flotation Cells 06	0
Conveyor Belts 07	0
Office 08	0
Diesel 09	1707
* Pipelines 10	474
Slurry Feed Tank and Pump 11*	0
Foundations12	13628
<b>Total</b>	<b>59476</b>

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Refuse Pipeline 01																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.38	/CF						64230					CF		64230	CF	0
	Structure's Vol. Demolished										833					CY	0.35	833	CY	0
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			0
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Pipe's Demolition																			
	Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.38	/CF	6800										LF		6800	LF	0
	Pipe's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			0
	Foundation's Demolition																			
	Demolition Cost	Concrete demo/ load/ dump**	03 05 05.10 0060	167	/CY						62					CY		62	CY	10354
	Foundation's Vol. Demolished																1.3	81	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	2.21	/CY													81	CY	179
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.74	/CY													81	CY	303
	Disposal Costs	On site disposal	02 41 16 17 4200	11.4	/CF													81	CY	923
	Subtotal																			11759
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			11759

Slurry pipe has been removed and salvaged (see Attachment, Photo A)  
 Pipeline Foundations (see Attachment, Photo B)  
 See Map A (attached) for photo locations

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Pumphouse 02*																			
Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.35	/CF						0					CF		0	CF	0
Structure's Vol. Demolished										0					CY	0.35	0	CY	
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																			
Subtotal																			0
Equipment's Disposal Cost																			
Dismantling Cost																			
Equipment's Vol. Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
Subtotal																			
Floor's Demolition																			
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	13.1	/CY						0					CY		0	CY	0
Floor's Vol. Demolished																1.3	0	CY	
Loading Cost	Front end loader 3 CY			/CY													0	CY	0
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY													0	CY	0
Disposal Costs	On site disposal	02 41 16.17 4200	10.2	/CY													0	CY	0
Subtotal																			0
Foundation's Demolition																			
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	13.1	/CY						0					CY		0	CY	0
Foundation's Vol. Demolished																1.3	0	CY	
Loading Cost	Front end loader 3 CY			/CY													0	CY	0
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY													0	CY	0
Disposal Costs	On site disposal	02 41 16.17 4200	10.2	/CY													0	CY	0
Subtotal																			0
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Total																			0

\* Pumphouse has been removed and reclaimed (see Photo F)  
See Map A (attached) for photo locations.

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Powerline East 03																			
Structure's Demolition Cost	Powerpole	02 41 13.80 0100	310	EA										25	EA		25	EA	7750
Structure's Vol. Demolished										0					CY	0.35	0	CY	
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																			
Subtotal																			7750
Conductor's Disposal Cost																			
Dismantling Cost																			
Conductor's Vol. Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
Subtotal																			0
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Total																			7750

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diamet	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
Clear Water Dike 04																				
Structure's Demolition Cost																				
Structure's Vol. Demolished																				
Rubble's Weight (exclude steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
Subtotal																				
Building 's Disposal Cost*	410 H. P. (D9)	01 54 33 20 4360	2368/day											0.2	DAY		0.2	DAY		474
Dismantling Cost																				
Building 's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
Subtotal																				474
Fresh Water Line's Demolition Cost	Pipe removal 24 inch	02 41 13.38 0500	19.8/FT		200										FT		200	FT		3960
Demolition Cost																				
Fresh Water Line's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				3960
Intake Tower																				
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	167 /CY							62					CY		62	CY		10354
Intake Tower's Vol. Demolished																1.3	81	CY		
Loading Cost	Front end loader 3 CY	31 23 16 42 1300	2.21 /CY														81	CY		179
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.74 /CY														81	CY		303
Disposal Costs	On site disposal	02 41 16.17 4200	11.4 /CY														81	CY		923
Subtotal																				11759
Spillway	Pipe removal 24 inch	02 41 13.38 0500	19.8/FT		200										FT		200	FT		3960
Demolition Cost																				
Spillway's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				3960
Total																				20153

\* Onsite dozer equipment cost = rental cost + operating cost or \$2368/day

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Wash Plant 05																			
Structure's Demolition Cost*	Steel Bld. Large	02 41 16.13 0020	0.35	/CF	90	70	50								FT		315000	FT	0
Structure's Vol. Demolished										4083					CY	0.35	4083	CY	
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																	4083	CY	
Subtotal																			0
Equipment's Disposal Cost																			
Dismantling Cost																			
Equipment's Vol. Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
Subtotal																			
Floor's Demolition																			
Demolition Cost**	Concrete demo/ load/ dump	03 05 05.10 0060	167	/CY	90	70	0.5								FT		117	CY	0**
Floor's Vol. Demolished**																	1.3	152	CY
Loading Cost	Front end loader 3 CY			/CY															
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY															
Disposal Costs	On site disposal	02 41 16.17 4200	11.4	/CY														152	CY
Subtotal																			0
Foundation's Demolition																			
Demolition Cost***	Concrete demo/ load/ dump	03 05 05.10 0060	167	/CY						22					CY		22	CY	3674
Foundation's Vol. Demolished																	1.3	29	CY
Loading Cost	Front end loader 3 CY			/CY															
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY															
Disposal Costs	On site disposal	02 41 16.17 4200	11.4	/CY														29	CY
Subtotal																			331
																			4005
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Total																			4005

This is the old facilities area.

\* Wash plant has been removed (see Attachment, Photo C)

\*\* This concrete structure has been re-engineered, reinforced and is now part of rail system, track and transloading operation and will not be reclaimed (see Attachment, Photo D).

\*\*\* Remaining concrete (see Attachment, Photo E)

See Map A (attached) for photo locations.

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
* Column Flotation Cells 06																				
Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.35	/CF			42	8							4	FT		0	FT	0
Structure's Vol. Demolished										109							0.35	109	CY	
Rubble's Weight (exclude steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				109
Subtotal																				0
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
Subtotal																				
Floor's Demolition																				
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060		/CY	40	40	0.5													0
Floor's Vol. Demolished																	1.3			0
Loading Cost	Front end loader 3 CY			/CY																0
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY																
Disposal Costs	On site disposal	02 41 16.17 4200		/CY																0
Subtotal																				0
Foundation's Demolition																				
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060		/CY						9										0
Foundation's Vol. Demolished																	1.3			0
Loading Cost	Front end loader 3 CY			/CY																0
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY																
Disposal Costs	On site disposal	02 41 16.17 4200		/CY																0
Subtotal																				0
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Total																				0

\* The Covol Wash Plant has been dismantled and the site reclaimed (Photo G).  
 See Map A (attached) for photo locations.  
 (This sheet remains herein to retain historical information).

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost		
Conveyor Belts 07																					
Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.35	/CF	800	5	5								1	FT		0	CF	0	
Structure's Vol. Demolished										259							0.35	0	CY		
Rubble's Weight (exclude steel)																					
Truck's Capacity																					
Haulage																					
Transportation Cost Non Steel Truck																					
Transportation Cost Non Steel Drive																					
Disposal Cost Non Steel																					
Steel's Weight																					
Truck's Capacity																					
Haulage																					
Transportation Cost Steel Truck																					
Transportation Cost Steel Truck Drive																					
Disposal Cost Steel																				0	CY
Subtotal																					0
Equipment's Disposal Cost																					
Dismantling Cost																					
Equipment's Vol. Demolished																					
Loading Costs																					
Transport Costs																					
Disposal Costs																					
Subtotal																					
Foundation's Demolition																					
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	167	/CY						37											0
Foundation's Vol. Demolished																	1.3				0
Loading Cost	Front end loader 3 CY			/CY																	
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY																	
Disposal Costs	On site disposal	02 41 16.17 4200	11.4	/CY																	0
Subtotal																					0
Concrete Demolition																					
Demolition Cost																					
Concrete's Vol. Demolished																					
Loading Cost																					
Transportation Cost																					
Disposal Costs																					
Subtotal																					
Concrete Demolition																					
Demolition Cost																					
Concrete's Vol. Demolished																					
Loading Cost																					
Transportation Cost																					
Disposal Costs																					
Subtotal																					
Total																					0

\* The Covol Wash Plant has been dismantled and the site reclaimed (Photo G).  
 See Map A (attached) for photo locations.  
 (This sheet remains herein to retain historical information).

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
Office 08																				
Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.35	CF	800	5	5								1	FT		0	CF	0
Structure's Vol. Demolished										259								0	CF	
Rubble's Weight (exclude steel)																	0.35	0	CY	
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
Subtotal																		259	CY	0
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Total																				0

All of the Covol Site has been dismantled, salvaged and reclaimed (Photo G).  
 See Map A (attached) for photo locations.  
 (This sheet remains herein to retain historical information).

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diamet	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost			
	Diesel 09																						
	Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.35	/CF						1340				1	CF		1340	CF	0			
	Structure's Vol. Demolished										17					CY	0.35	17	CY				
	Rubble's Weight (exclude steel)																						
	Truck's Capacity																						
	Haulage																						
	Transportation Cost Non Steel Truck																						
	Transportation Cost Non Steel Drive																						
	Disposal Cost Non Steel																						
	Steel's Weight																						
	Truck's Capacity																						
	Haulage																						
	Transportation Cost Steel Truck																						
	Transportation Cost Steel Truck Drive																						
	Disposal Cost Steel																						
	Subtotal																			17	CY	0	
	Equipment 's Disposal Cost																						
	Dismantling Cost																						
	Equipment 's Vol. Demolished																						
	Loading Costs																						
	Transport Costs																						
	Disposal Costs																						
	Subtotal																						
	Floor's Demolition																						
	Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	167	/CY	17	17	0.5								FT		5.4	CY	902			
	Floor's Vol. Demolished																1.3	7	CY				
	Loading Cost	Front end loader 3 CY			/CY																		
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY																		
	Disposal Costs	On site disposal	02 41 16.17 4200	11.4	/CY															7	CY	80	
	Subtotal																				7	CY	982
	Floor's Demolition																						
	Demolition Cost																						
	Floor's Vol. Demolished																						
	Loading Cost																						
	Transportation Cost																						
	Disposal Costs																						
	Subtotal																						
	Foundation's Demolition																						
	Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	167	/CY						4					CY		4	CY	668			
	Foundation's Vol. Demolished																1.3	5	CY				
	Loading Cost	Front end loader 3 CY			/CY																		
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY																		
	Disposal Costs	On site disposal	02 41 16.17 4200	11.4	/CY															5	CY	57	
	Subtotal																				5	CY	725
	Total																						1707

\* For the benefit of doubt, we left these costs in the spreadsheet (we not sure when this floor and foundation is located). Total volume if present would be 5.4 CY not 145 CY.

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
* Pipelines 10																			
Structure's Demolition Cost	Pipe removal 12 inch	02 41 13.23 2900	11.3	/FT	5800										LF		5800	LF	0
Structure's Vol. Demolished																			
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																			
Subtotal																			0
Equipment 's Disposal Cost																			
Dismantling Cost																			
Equipment 's Vol. Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Equipment Cost																			
Demolition Cost	Backhoe 5/8 CY capacity	01 54 33 0400	268	/da										1	DAY		1	DAY	268
Concrete	1 YD	03 31 13 0020	124																124
Concrete	Concrete short load costs	03 31 13.35 1520	82																82
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Total																			474

\* We assume this is the underground pipeline is the one from the Clearwater Pond to the Dryer Pond. We have reviewed early U.S. Steel and NEICO reclamation costs (1996 & 2000) of which had no costs for removal of the pipeline. Furthermore, it is not within the SMCRA bond area. As stated in previous submittals to DOGM, the current owner considers the ability to move water from from the east to the west side has a valuable asset for current and future operations of the facility. Additionally transfer of this water is an approved water right through the State of Utah. Finally, in the extremely unlikely event the water pipeline were to be reclaimed through SMCRA, the reclamation would be to stop the water flow at its source near the pumphouse area by plugging the upstream end with cement grout.

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Slurry Feed Tank and Pump 11"																			
Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0020	0.38	/CF						21200					CF		21200	CF	0
Structure's Vol. Demolished																			
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																			
Subtotal																			0
Equipment's Disposal Cost																			
Dismantling Cost																			
Equipment's Vol. Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
Subtotal																			
Floor's Demolition																			
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	167	/CY						5					SY		5	SY	0
Floor's Vol. Demolished																	1.3	6	CY
Loading Cost	Front end loader 3 CY			/CY															
Disposal Costs	On site disposal	02 41 16.17 4200	11.4	/CY														6	CY
Subtotal																			0
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Foundation's Demolition																			
Demolition Cost	Concrete demo/ load/ dump	03 05 05.10 0060	167	/CY						10.5					CY		10.5	CY	0
Foundation's Vol. Demolished																	1.3	14	CY
Loading Cost	Front end loader 3 CY			/CY															
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip			/CY															
Disposal Costs	On site disposal	02 41 16.17 4200	11.4	/CY														14	CY
Subtotal																			0
Total																			0

All of the Covol Site has been dismantled, salvaged and reclaimed (Photo G).  
 See Map A (attached) for photo locations.  
 (This sheet remains herein to retain historical information).

Description	Materials	Means Reference Number	Unit Cost	Unit	Length ft	Width ft	Height ft	Diameter in	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Foundations <sup>12</sup>																			
Structure's Demolition Cost																			
Structure's Vol. Demolished																			
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																			
Subtotal																			
Equipment's Disposal Cost																			
Dismantling Cost																			
Equipment's Vol. Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
Subtotal																			
Concrete Demolition*																			
Demolition Cost	Foundation demo/ load/ dump	02 41 16.17 0440*	1.57 /SqFt		30	40	10	12		3800	SqFt			141	CY				5966
Demolition Cost	Foundation demo/ load/ dump	02 41 16.17 0440*	0.99 /SqFt		10	10	6	6		440	SqFt			8	CY				436
Demolition Cost	Foundation demo/ load/ dump	02 41 16.17 0440*	0.99 /SqFt		30	15	15	6		2370	SqFt			44	CY				2346
Transportation Cost																			
Disposal Costs	On site disposal	02 41 16.17 4200	11.4 /CY		70	65	31			193	CY			193	CY				2200
Subtotal																			
Railroad Track Removal	Tie and track removal	02 41 13.33 3500	13.4 L.F.		200														2680
Demolition Cost																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Total																			13628

\* The CY in 2013 was calculated incorretly This has been revised here.  
 Cost of 12' concrete \$1.43 plus 10% added for average reinforcing (Ref. 02 41 16.17 2600)

# Earthwork



	in 2017 costs
	Cost
West Side	
Plant Sediment Pond 001	\$ 307
Road Pond 002	\$ 3,891
Heat Dryer Pond 003	\$ 341
Site Grading West of Price River 204*	\$ 11,894
Cover Coarse Refuse Pile with Topsoil 205	\$ 45,072
East Side	
Coarse Slurry Pond Pile to Upper Slurry 206	\$ 716,967
Upper and Lower Refuse Basin 004	\$ 2,090,610
Grade Upper Refuse Dike 005 to 5:1 slope	\$ 5,189
Grade Crest 006 of Lower Refuse Dike	\$ 19,525
Grade Diversion Ditch West of River 007	\$ 2,594
Pumphouse and Slurry Pipeline Area Topsoil 008	\$ 3,280
Grade & Rip Topsoil Borrow Area 009	\$ 26,137
Support 013	\$ 246,229
<b>Total</b>	<b>\$ 3,172,036</b>





	Cost Reference		Equipment Cost	Hourly	Equipment Overhead	Operator's	Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total	Units	Quantity	Units	Production	Units	Equip. +	Units	Cost	
	Year	Page		Costs		Hourly				Eq. & Lab. Costs				Rate		Time/Dis.			Labor
<b>Heat Dryer Pond 003</b>																			
D9R Semi-U EROPS 410 HP (2005)	2H 2017	\$9-88	20950	117.65	0.1	81	341.35	1	341.35		434	lcy		597.6	lcy/hr		1	HR	\$341.00
Subtotal																			\$ 341

	Cost Reference		Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's		Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Production		Equip. + Labor		Cost	
	Year	Page				Hourly Wage Rate	Hourly Cost					Units	Rate	Units	Time/Dis.		Units
<b>Upper and Lower Refuse Basin 004</b>																	
<b>with 4 feet of Cover</b>																	
<b>Portion from Borrow Area E</b>																	
657EP-P (2006) 550 HP 32-44 CY EROPS	2H 2017	§9-84	33735	227.85	0.1	81	542.48	4	2169.92		610700	lcy	1826	lcy/hr	334.4	HR	\$725,621.00
D9R Semi-U EROPS 410 HP (2005)	2H 2017	§9-88	20950	117.65	0.1	81	341.35	1	341.35						334.4	HR	\$114,147.00
<b>Portion from Borrow Area D + G</b>																	
657EP-P (2006) 550 HP 32-44 CY EROPS	2H 2017	§9-84	33735	227.85	0.1	81	542.48	4	2169.92		229338	lcy	2400	lcy/hr	95.6	HR	\$207,444.00
D9R Semi-U EROPS 410 HP (2005)	2H 2017	§9-88	20950	117.65	0.1	81	341.35	1	341.35						95.6	HR	\$32,633.00
<b>Portion from Borrow Area H + I</b>																	
988G EROPS 8.2 CY 475 HP (2005)	2H 2017	§9-62	13070	92.25	0.1	81	264.16	2	528.33		168702	lcy	747	lcy/hr	225.8	HR	\$119,297.00
6X4 70,000lbs 12-18 CY 400 HP	2H 2017	§20-11	4560	46.7	0.1	77.15	157.02	16	2512.32						225.8	HR	\$567,282.00
D9R Semi-U EROPS 410 HP (2005)	2H 2017	§9-88	20950	117.65	0.1	81	341.35	1	341.35						225.8	HR	\$77,077.00
<b>Portion from Clearwater &amp; Lower Refuse Dikes</b>																	
657EP-P (2006) 550 HP 32-44 CY EROPS	2H 2017	§9-84	33735	227.85	0.1	81	542.48	4	2169.92		224068	lcy	2276	lcy/hr	98.4	HR	\$213,520.00
D9R Semi-U EROPS 410 HP (2005)	2H 2017	§9-88	20950	117.65	0.1	81	341.35	1	341.35		180700				98.4	HR	\$33,589.00
<b>Subtotal</b>																	
																\$ 2,090,610	

Note: this sheet includes what use to be sheet cover upper Lower Refuse Basin with Topsoil 208 it was the Clearwater lower refuse dikes portion.





	Cost Reference		Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis. Units	Cost	
	Year	Page															
<b>Grade Diversion Ditch West of River 007</b>																	
D9R Semi-U EROPS 410 HP (2005)	2H 2017	\$9-88	20950	117.65	0.1	81	341.35	1	341.35		5828	lcy	766.92	lcy/hr	7.6	HR	\$2,594.00
<b>Subtotal</b>																	\$ 2,594











	Cost Reference		Equipment Cost	Hourly	Equipment Overhead	Operator's	Hourly Cost	Number of Men or Eq.	Total	Units	Quantity	Units	Production	Units	Equip. +	Units	Cost
	Year	Page		Operating Costs		Hourly Wage Rate			Eq. & Lab. Costs				Rate		Time/Dis.		
<b>Support 013</b>																	
5,000 gal H2O truck Diesel	2H 2017	\$20-18	5450	40.85	0.1	66.6	145.60	1	145.6						1006	HR	\$146,474.00
Pickup Truck Diesel Crew 4x4 1 ton	2H 2017	\$20-20	1095	9.15	0.1	0	16.91	1	16.91						1006	HR	\$17,011.00
Foreman Average, Outside	Back of RSMMeans					82.25	82.25	1	82.25						1006	HR	\$82,744.00
Subtotal																	\$ 246,229

# *Revegetation*



Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
<b>Revegetation</b>																			
Fertilizer	Fertilizer Hydro Spread/water soluble 1.5#	32 01 90.13 0180	5/MSF						421						AC		18339	MSF	\$ 91,694.00
Light Disk Harrow	Grader Rear Ripper, 180 HP ideal condition inst	31 23 16.32 2510	3.14	BCY					421						AC	1	2038	BCY	\$ 6,398.00
Seeding	Atriplex-Hilaria	Wellington1	430.88	\$/AC					421						AC		421	AC	\$ 181,400.00
Mulch	Hay bale	Reveg007	61.6	/ton					421						2 AC		842	ton	\$ 51,867.00
Mulch	Mulch Application	Wellington 003	6.12	/AC					421						AC		421	AC	\$ 2,577.00
Subtotal																			333936
Revegetation																			
100% Revegetation Rate																			\$ 83,484.00
Subtotal																			83484
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Total																			\$ 417,420.00

# *Photos*

Appendix J Attachment

January 17, 2018



**Photo A:** Pipeline (Removed) Area [see Demolition, Refuse Pipeline 01]



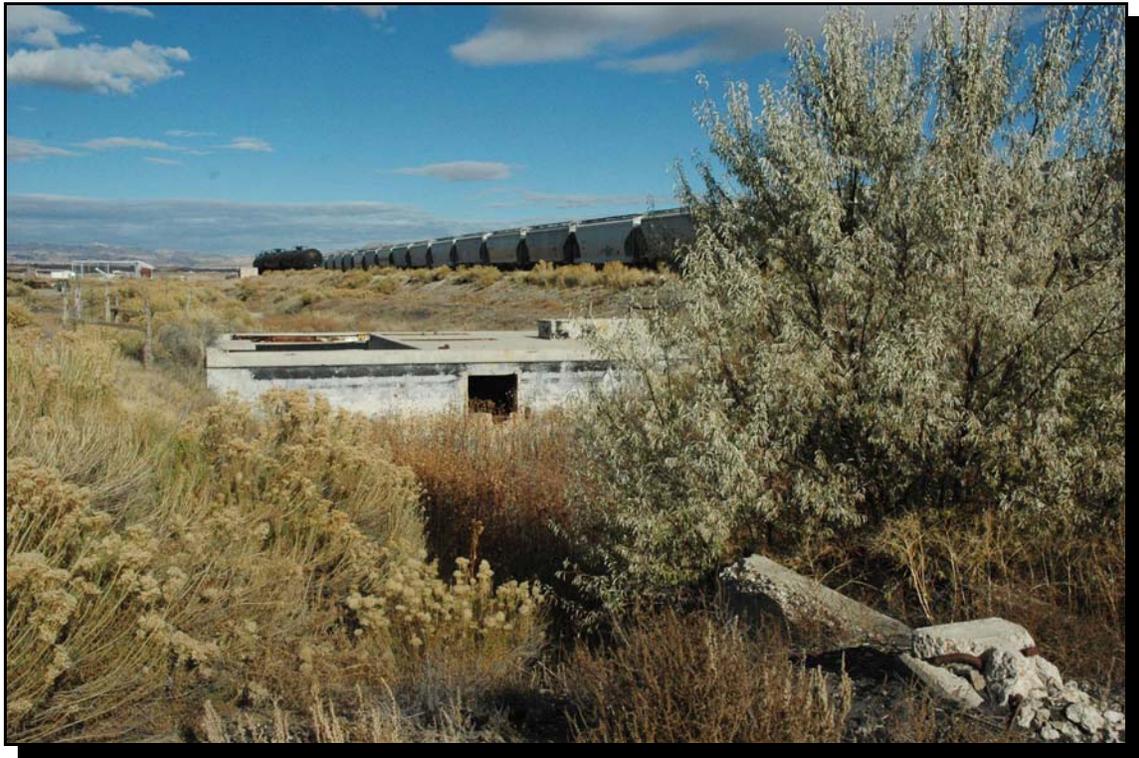
**Photo B:** Remaining Pipeline Foundation [see Demolition, Refuse Pipeline 01]



**Photo C:** Removed Wash Plant Buildings & Concrete [see Demolition, Wash Plant 05]



**Photo D:** Redesigned, Engineered & Reinforced [not to be reclaimed (see Floor Demolition)]



**Photo E:** Remaining Concrete of Old Wash Plant [see Demolition]



**Photo F:** Reclaimed Pumphouse Area [see Demolition, Pumphouse 02]

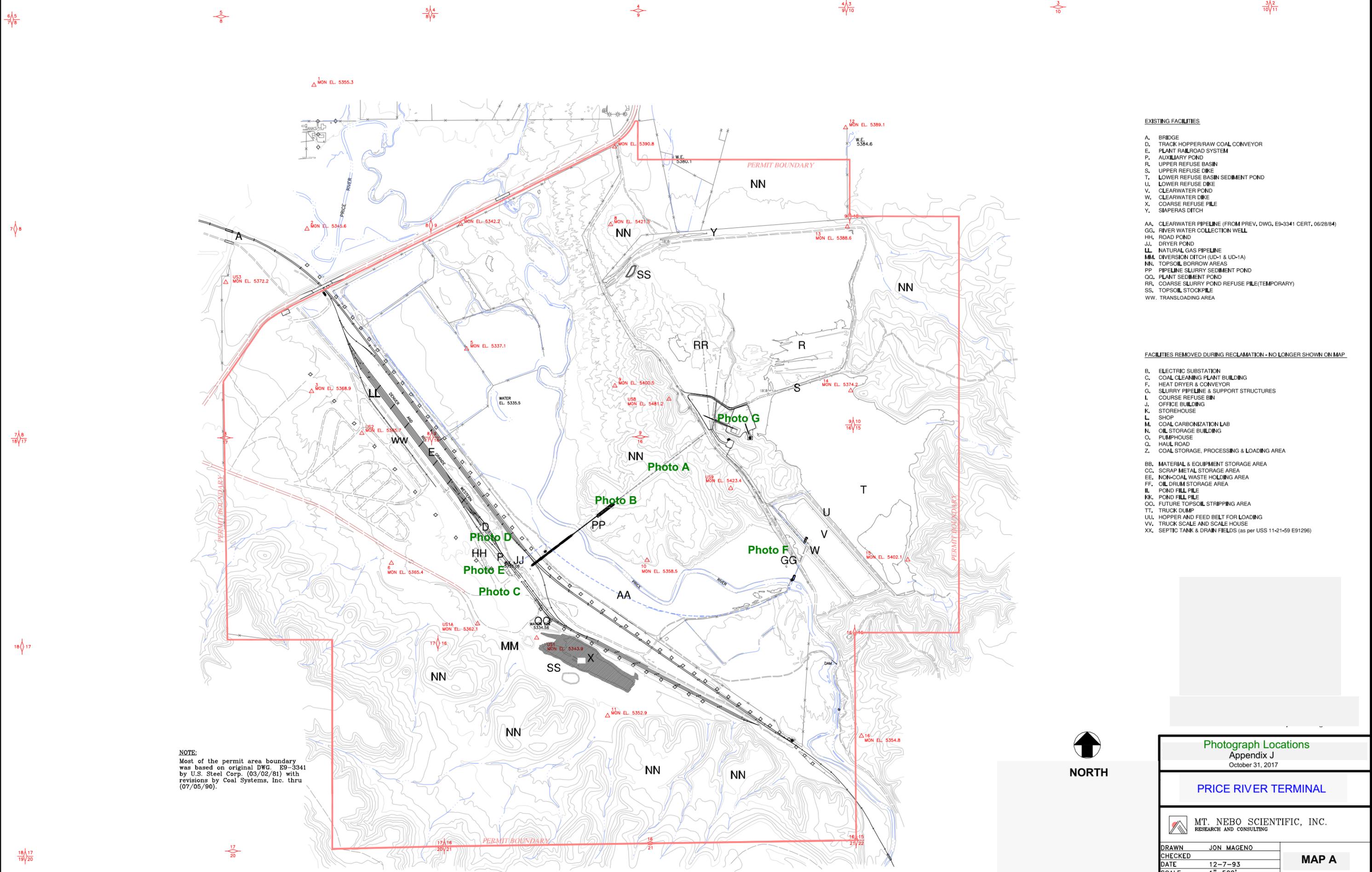


**Photo G:** Reclaimed Covol Wash Plant Area [see Demolition, Column Flootation Cells]

# *Photo Location Map*

Appendix J Attachment

January 17, 2018



**EXISTING FACILITIES**

- A. BRIDGE
- D. TRACK HOPPER/RAW COAL CONVEYOR
- E. PLANT RAILROAD SYSTEM
- P. AUXILIARY POND
- R. UPPER REFUSE BASIN
- S. UPPER REFUSE DIKE
- T. LOWER REFUSE BASIN SEDIMENT POND
- U. LOWER REFUSE DIKE
- V. CLEARWATER POND
- W. CLEARWATER DIKE
- X. COARSE REFUSE PILE
- Y. SIAPERAS DITCH
  
- AA. CLEARWATER PIPELINE (FROM PREV. DWG. E9-3341 CERT. 06/28/84)
- GG. RIVER WATER COLLECTION WELL
- HH. ROAD POND
- JJ. DRYER POND
- LL. NATURAL GAS PIPELINE
- MM. DIVERSION DITCH (UD-1 & UD-1A)
- NN. TOPSOIL BORROW AREAS
- PP. PIPELINE SLURRY SEDIMENT POND
- QQ. PLANT SEDIMENT POND
- RR. COARSE SLURRY POND REFUSE PILE (TEMPORARY)
- SS. TOPSOIL STOCKPILE
- WW. TRANSLOADING AREA

**FACILITIES REMOVED DURING RECLAMATION - NO LONGER SHOWN ON MAP**

- B. ELECTRIC SUBSTATION
- C. COAL CLEANING PLANT BUILDING
- F. HEAT DRYER & CONVEYOR
- G. SLURRY PIPELINE & SUPPORT STRUCTURES
- I. COARSE REFUSE BIN
- J. OFFICE BUILDING
- K. STOREHOUSE
- L. SHOP
- M. COAL CARBONIZATION LAB
- N. OIL STORAGE BUILDING
- O. PUMPHOUSE
- Q. HAUL ROAD
- Z. COAL STORAGE, PROCESSING & LOADING AREA
  
- BB. MATERIAL & EQUIPMENT STORAGE AREA
- CC. SCRAP METAL STORAGE AREA
- EE. NON-COAL WASTE HOLDING AREA
- FF. OIL DRUM STORAGE AREA
- II. POND FILL PILE
- KK. POND FILL PILE
- OO. FUTURE TOPSOIL STRIPPING AREA
- TT. TRUCK DUMP
- UU. HOPPER AND FEED BELT FOR LOADING
- VV. TRUCK SCALE AND SCALE HOUSE
- XX. SEPTIC TANK & DRAIN FIELDS (as per USS 11-21-59 E91296)

**NOTE:**  
 Most of the permit area boundary was based on original DWG. E9-3341 by U.S. Steel Corp. (03/02/81) with revisions by Coal Systems, Inc. thru (07/05/90).



<b>Photograph Locations</b> Appendix J October 31, 2017	
<b>PRICE RIVER TERMINAL</b>	
<b>MT. NEBO SCIENTIFIC, INC.</b> RESEARCH AND CONSULTING	
DRAWN JON MAGENO CHECKED DATE 12-7-93 SCALE 1"=500'	<b>MAP A</b>

5/5 7/8 9/8 10/8 11/8 12/8 13/8 14/8 15/8 16/8 17/8 18/8

5/9 6/9 7/9 8/9 9/9 10/9 11/9 12/9 13/9 14/9 15/9 16/9 17/9 18/9

5/10 6/10 7/10 8/10 9/10 10/10 11/10 12/10 13/10 14/10 15/10 16/10 17/10 18/10

5/11 6/11 7/11 8/11 9/11 10/11 11/11 12/11 13/11 14/11 15/11 16/11 17/11 18/11

5/12 6/12 7/12 8/12 9/12 10/12 11/12 12/12 13/12 14/12 15/12 16/12 17/12 18/12

5/13 6/13 7/13 8/13 9/13 10/13 11/13 12/13 13/13 14/13 15/13 16/13 17/13 18/13

5/14 6/14 7/14 8/14 9/14 10/14 11/14 12/14 13/14 14/14 15/14 16/14 17/14 18/14

5/15 6/15 7/15 8/15 9/15 10/15 11/15 12/15 13/15 14/15 15/15 16/15 17/15 18/15

5/16 6/16 7/16 8/16 9/16 10/16 11/16 12/16 13/16 14/16 15/16 16/16 17/16 18/16

5/17 6/17 7/17 8/17 9/17 10/17 11/17 12/17 13/17 14/17 15/17 16/17 17/17 18/17

5/18 6/18 7/18 8/18 9/18 10/18 11/18 12/18 13/18 14/18 15/18 16/18 17/18 18/18

5/19 6/19 7/19 8/19 9/19 10/19 11/19 12/19 13/19 14/19 15/19 16/19 17/19 18/19

5/20 6/20 7/20 8/20 9/20 10/20 11/20 12/20 13/20 14/20 15/20 16/20 17/20 18/20