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DAVID H. WRIGHT
General Manager

June 20, 2017

Mr. Daron Haddock, Coal Program Manager
Utah Division of Oil, Gas & Mining Coal Program
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Dear Mr. Haddock:

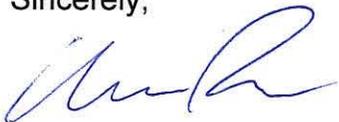
Subject: Intermountain Power Agency (IPA) - Midterm Review Permit Update
Wildcat Loadout Facility, C/007/0033

As requested by your May 17, 2017 response, Intermountain Power Agency respectfully submits an updated response to the deficiencies contained in your response along with forms C1 & C2, pertaining to the above referenced submittal.

An electronic copy of all submittal materials have been sent to DOGM via email to ogmcoal@utah.gov on June 20, 2017. A hard copy will not be sent unless requested.

If you have any comments or questions, please contact me at (213) 367-4347.

Sincerely,



Aaron Perlman
Project Manager
Intermountain Power Project

AP:ln

By Email Only

cc: Mr. R. Dan Eldridge, IPA
Mr. Bradford L. Packer
Mr. William W. Engels
Mr. John L. Aguilar

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: INTERMOUNTAIN POWER AGENCY

Mine: WILDCAT LOAD OUT FACILITY

Permit Number: C/007/0033

Title: MID-TERM REVIEW - TASK ID NO. 5341 June 16, 2017

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

Instructions: If you answer yes to any of the first eight (gray) 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: _____

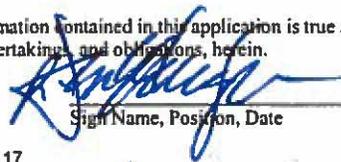
- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting 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?

Please attach one (1) review copy of the application.

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.

R. Dan Eldredge

Print Name



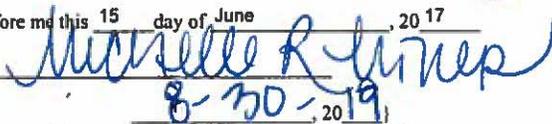
General Manager, June 15, 2017

Sign Name, Position, Date

Subscribed and sworn to before me this 15 day of June, 2017

Michelle Miller

Notary Public



My commission Expires:

Attest: State of Utah, 8-30-19) ss:

County of Salt Lake



MICHELLE R. MILLER
 NOTARY PUBLIC-STATE OF UTAH
 COMMISSION# 684559
 COMM. EXP. 08-30-2019

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

R645-301-113.320. DESCRIPTION OF VIOLATIONS

None

R645-301-113.330. LOCATION OF VIOLATIONS PROCEEDINGS

None

R645-301-113.340. STATUS OF VIOLATIONS PROCEEDINGS

None

R645-301-113.350. ACTIONS TAKEN TO ABATE VIOLATIONS

None

R645-301-114. RIGHT-OF-ENTRY INFORMATION

The legal right to enter and conduct coal loading activities in the permit area (collectively, the “Entry Rights”) based on the language contained therein include those items listed below (a copy of which is included in Appendix B).

1. Bureau of Land Management (“BLM”) Right of Way No. U-48027 dated January 1982 between Tower Resources, Inc. and BLM, as amended by that certain Amendment dated February 5, 2007. This right of way contains 270 acres described as the NE¹/₄SW¹/₄NE¹/₄, S¹/₂SW¹/₄NE¹/₄, E¹/₂SW¹/₄, SE¹/₄ of Section 33, Township 13 South, Range 9 East, SLBM.
2. BLM Right of Way No. U-52810 dated May 1984. The right of way contains 10.37 acres within Sections 28 and 33, Township 13 South, Range 9 East, SLBM.
3. Lease dated December 1, 1981 between Utah Railway Company and Tower Resources, Inc., as amended by that certain Lease Amendment dated February 8, 1983. The Lease covers thirteen acres within Section 33, Township 13 South, Range 9 East, SLBM.
4. Beaver Creek Coal Company Letter Agreement. An unrecorded Agreement from Beaver Creek Coal Company to Andalex Resources, Inc., dated July 28, 1988, granting Andalex the right to use a small portion of land for the Wildcat Loadout operations. The area granted is located to the east of Beaver Creek Coal Company’s fence to the railroad right-of-way and south of the “new gate.”

The permit area is located on ~~100.19~~ 123.19 acres on the following described lands:

Township 13 South, Range 9 East, SLBM

Section 33: NW¹/₄SE¹/₄, N¹/₂SW¹/₄SE¹/₄, E¹/₂E¹/₂NE¹/₄SW¹/₄, E¹/₂NE¹/₄SE¹/₄SW¹/₄, NE¹/₄SE¹/₄SE¹/₄SW¹/₄, NW¹/₄SW¹/₄SW¹/₄SE¹/₄, E¹/₂SE¹/₄SW¹/₄NE¹/₄ and Portions of N¹/₂NW¹/₄NE¹/₄SE¹/₄, NE¹/₄SW¹/₄NE¹/₄, SW¹/₄SW¹/₄NE¹/₄, NW¹/₄SE¹/₄SW¹/₄NE¹/₄, W¹/₂NE¹/₄SW¹/₄, W¹/₂E¹/₂NE¹/₄SW¹/₄, W¹/₂E¹/₂SE¹/₄SW¹/₄, SW¹/₄SE¹/₄SW¹/₄NE¹/₄ containing ~~100.19~~ 123.19 acres.

The Entry Rights are held by the Intermountain Power Agency pursuant to the terms and conditions of the following instruments:

1. May 10, 2011 Rights of Way, Leases, Real Property Agreements—Assignments Assignment and Assumption Agreement (“IPA Assignment”) between Intermountain Power Agency and Andalex Resources, Inc., recorded with the Carbon County Recorder on May 13, 2011 at Entry No. 810646, Book 747, Page 93. A copy of the IPA Assignment is attached hereto as Appendix B-Part A-22; and
2. May 4, 2011 Quitclaim Deed (“IPA Quitclaim”) between Andalex Resources, Inc., as Grantor, and Intermountain Power Agency, Grantee, recorded with the Carbon County Recorder on May 13, 2011 at Entry No. 810647, Book 747, Page 98. A copy of the IPA Quitclaim is attached hereto as Appendix B-Part A-23.

R645-301-114.100. DOCUMENTATION

Appendix B

R645-301-114.200. SEVERED SURFACE AND MINERAL ESTATES

Appendix B

R645-301-114.210. WRITTEN SURFACE OWNER CONSENT FOR COAL EXTRACTION

N/A

R645-301-114.220. CONVEYANCE EXPRESSLY GRANTING RIGHT TO MINE COAL

N/A

R645-301-114.230. DOCUMENTATION OF LEGAL AUTHORITY TO MINE COAL

N/A

R645-301-114.300. ADJUDICATION OF PROPERTY RIGHTS DISPUTES

The Division does not have the authority to adjudicate property rights disputes.

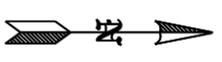
R645-301-115. STATUS OF UNSUITABILITY CLAIMS

DISTURBED AREAS:

EXISTING WEST: 26.11 AC.
 EXISTING EAST: 85.51 AC.
 TOTAL: 111.62 AC.

SECTION 33
 SECTION 34

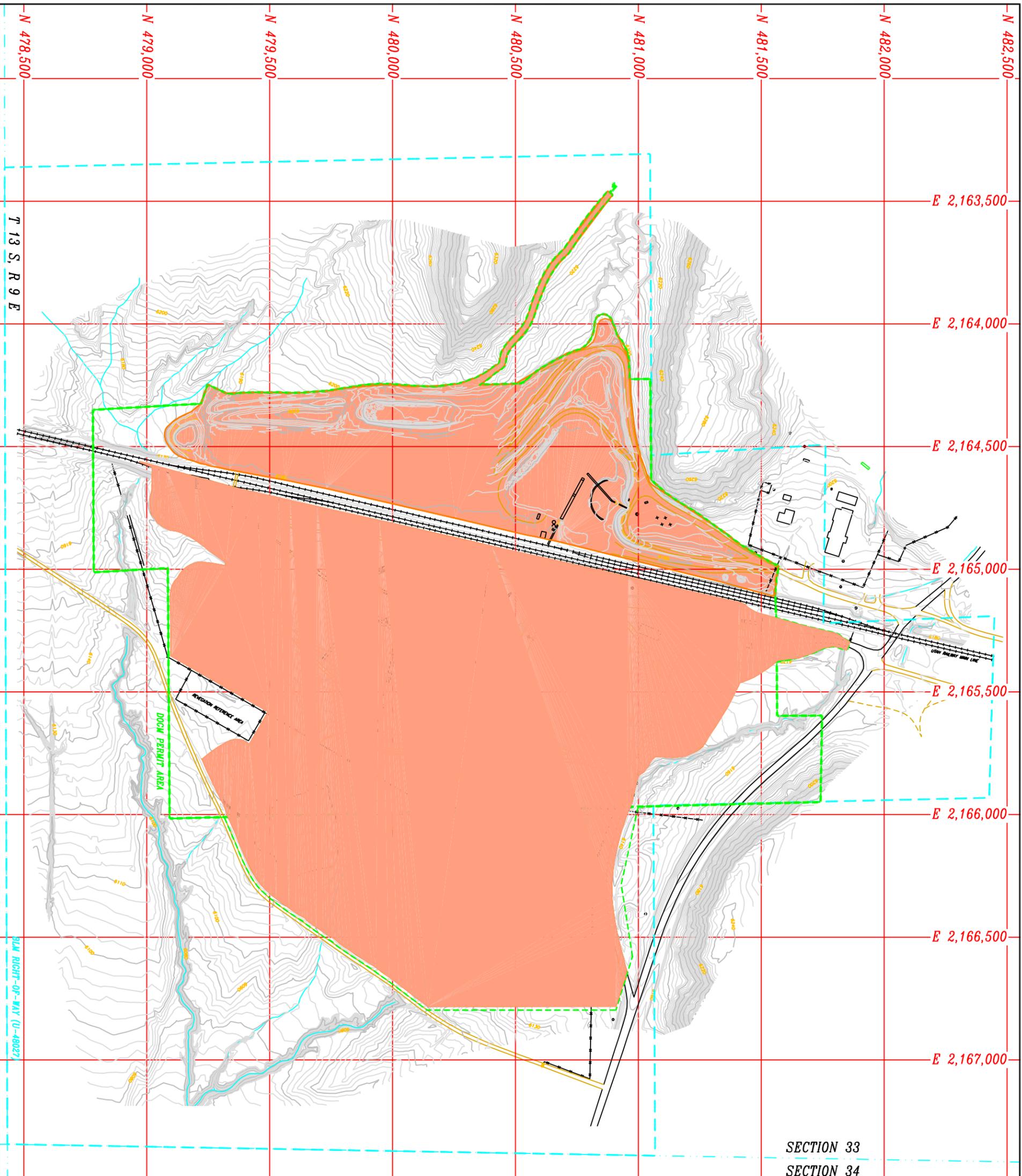
EXISTING DISTURBED AREA:
 EXISTING PERMIT AREA:
 BLM RIGHT OF WAY:



**INTERMOUNTAIN
 POWER AGENCY**

WILDCAT LOADOUT - C/007/0030
 DISTURBED AREAS

REVISION NUMBER: 4	SCALE: 1" = 150'
DATE: JANUARY 2017	PLATE 1-B



N 478,500
 N 479,000
 N 479,500
 N 480,000
 N 480,500
 N 481,000
 N 481,500
 N 482,000
 N 482,500

E 2,163,500
 E 2,164,000
 E 2,164,500
 E 2,165,000
 E 2,165,500
 E 2,166,000
 E 2,166,500
 E 2,167,000

T 13 S, R 9 E

BLM RIGHT-OF-WAY (U-48027)

Wildcat Loadout Final Seed Mixture			
Scientific Name	Common Name	PLS/Ac	Seeds Per/ft ²
<i>Amelanchier utahensis</i>	Utah serviceberry	7.00	4.15
<i>Artemisia tridentata</i>	Big sagebrush	0.06	3.44
<i>Ceratoides lanata</i>	Winterfat	5.00	6.31
<i>Chrysothamnus nauseosus</i>	Rubber rabbitbrush	0.30	2.75
<i>Purshia tridentata</i>	Bitterbrush	12.00	4.13
<i>Archillea millefolium</i>	Yarrow	0.05	3.18
<i>Hedysatum boreale</i>	Northern sweetvetch	8.00	6.17
<i>Linum lewisii</i>	Lewis flax	1.00	6.38
<i>Penstemon palmeri</i>	Palmer penstemon	0.50	7.00
<i>Viguiera multiflora</i>	Showy goldeneye	0.20	4.84
<i>Bouteloua gracilis</i>	Blue grama	0.60	9.79
<i>Elymus spicatus</i>	Bluebunch wheatgrass	2.50	8.03
<i>Elymus trachycaulus</i>	Slender wheatgrass	2.50	9.18
<i>Hilaria jamesii</i>	Galleta	2.50	9.13
<i>Stipa comata</i>	Needle-and-thread grass	3.00	7.92
<i>Stipa hymenoides</i>	Indian ricegrass	2.00	8.63
TOTALS		47.21	101.06

65.00
9.50
18.00
18.00
19.00

39.00
75.00
8.75
10.00
32.60

16.00
8.95
2.95
24.00
39.50
6.95

Great Basin
Cost taken off their site.
by G. Taylor

INCORPORATED
SEPTEMBER 14, 2012
DIVISION OIL, GAS & MINING

EIS ENVIRONMENTAL & ENGINEERING CONSULTING

435-472-3814 / 800-641-2927 / FAX 435-472-8780 / tompaluso@preciscom.net / 31 NORTH MAIN STREET HELPER, UTAH 84526

MEMO

MEMO TO: Ryan
MEMO FROM: Gary Taylor
DATE: 15 February 2017
SUBJECT: Seed Mix

Granite Seed

Utah Serviceberry- \$75.00 per pound
Big Sagebrush- \$45.00
Winterfat- \$22.00
Rubber Rabbitbrush- \$45.00
Bitterbrush- \$22.00
Yarrow\$40.00
Northern Sweetvetch- \$70.00
Lewis Flax- \$10.00
Palmer Penstemon- \$25.00
Showy Goldeneye- \$70.00
Blue Grama- \$16.00
Bluebunch Wheatgrass- \$8.00
Slender Wheatgrass- \$3.50
Needle-and-Thread- \$35.00
Indian Ricegrass- \$8.00



THE MAPLE LEAF CO.
SEED DIVISION

450 South 50 East
Ephraim, Utah, 84627
P) 435.283.4400
F) 435.283.6872
maplelf@cut.net

Gary Taylor
EIS
Seed Prices 2-28-17
Page 2

	PLS / lb
Utah Serviceberry	\$62.00
Big Sagebrush	\$45.00
Winterfat	\$22.00
Rubber Rabbitbrush	\$39.00
Bitterbrush	\$22.50
Yarrow	\$27.00
Northern Sweetvetch	\$72.00
Lewis Flax	\$6.75
Palmer Penstemon	\$24.00
Showy Goldeneye	\$90.00
Blue Grama	\$9.50
Bluebunch Wheatgrass	\$6.75
Slender Wheatgrass	\$2.25
Needle-and-Thread	\$32.00
Indian Ricegrass	\$6.50

Lloyd Stevens
Maple leaf Seed Co.
Ephraim, Utah

FORM 2800-14
(August 1985)

Issuing Office
Price Field Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT

SERIAL NUMBER UTU-48027

1. A right-of-way is hereby granted pursuant to Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761).

2. Nature of Interest:

RECEIVED

a. By this instrument, the holder:

OCT 02 2014

Intermountain Power Agency
10653 S River Front Parkway, Suite 120
South Jordan, UT 84095

BLM
PRICE, UT

receives a right to construct, operate, maintain, and terminate the Wildcat loadout on public lands described as follows:

T.13 S., R. 9 E., Salt Lake Meridian, Carbon County, Utah
Section 33: NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$.

b. The right-of-way or permit area granted herein contains 270 acres, more or less, as shown on the attached map. The right-of-way authorizes a coal storage and loadout facility on the east side and crude oil storage and loadout facility on the west side.

c. This instrument shall expire on December 31, 2034. This grant is authorized for 20 years unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.

d. This instrument may be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the Field Manager or other authorized officer deems necessary to protect the public interest.

e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

Terms and Conditions:

4. Standard

- a. This grant is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations part 2800.
- b. Each grant issued for a term of 10 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 10th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- c. The stipulations, plans, maps, or designs set forth in Exhibits A (Plan of Development) and B (Maps), attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- d. In the event that the public land underlying the right-of-way (ROW) encompassed in this grant, or a portion thereof, is conveyed out of Federal ownership and administration of the ROW or the land underlying the ROW is not being reserved to the United States in the patent/deed and/or the ROW is not within a ROW corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations at 43 CFR Part [2800][2880], including any rights to have the holder apply to BLM for amendments, modifications, or assignments and for BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with the use and the terms and conditions of the ROW shall be considered a civil matter between the patentee/grantee and the ROW Holder.

5. Applicable Laws

- a. The holder shall comply with all Federal, State, and local regulations whether or not specifically mentioned within this grant.
- b. Failure of the holder to comply with applicable law or any provision of this right-of-way grant shall constitute grounds for suspension or termination thereof.
- c. Use of pesticides shall comply with the applicable Federal and state laws. Pesticides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, the holder shall obtain from the Field Manager or other authorized officer written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the authorized officer. Emergency use of pesticides shall be approved in writing by the authorized officer prior to such use.
- d. The holder of this right-of-way grant or the holder's successor in interest shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and the regulations of the Secretary of the Interior issued pursuant thereto.
- e. The holder shall meet Federal, State, and local emission standards for air quality.
- f. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder(s) shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- g. The holder shall comply with the construction practices and mitigating measures established by 33 CFR 323.4, which sets forth the parameters of the "nationwide permit" required by Section 404 of the Clean Water Act. If the proposed action exceeds the parameters of the nationwide permit, the holder shall obtain an individual permit from the appropriate office of the Army Corps of Engineers and provide the authorized officer with a copy of same. Failure to comply with this requirement shall be cause for suspension or termination of this right-of-way grant.
 - h. The holder of Right-of-Way No. UTU-48027 agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901 et seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
 - i. The holder is prohibited from discharging oil or other pollutants into or upon the navigable waters of the United States, adjoining shorelines, or the waters of the contiguous zone in violation of Section 311 of the Clean Water Act as amended, 33 U.S.C. 1321, and the regulations issued there under, or applicable laws of the State and regulations issued there under. Holder shall give immediate notice of any such discharge to the authorized officer and such other Federal and State officials as are required by law to be given such notice.
6. Miscellaneous
- a. The holder is authorized to load up to 20,000 BBL/Day at this facility, any amount in excess of that is not authorized. The holder shall submit an annual report to the BLM, Price Field Office, showing the maximum daily loading rate for this site. This report shall be submitted in January of each year.
 - b. The current Spill Prevention Control and Countermeasure Plan and the Storm Water Pollution Prevention Plan will be followed. The plans will be made available for review at the load out site.
 - c. All new light structures west of the existing rail line will be designed to cast light downwards. The existing light structures to the east will have angled or hooded shields installed to direct the light toward the area requiring light.
 - d. The pond located south of the truck unloading lanes and the pond located near the existing refuse storage pile will be lined with either a clay base or high-density polyethylene membrane.
 - e. Yearly monitoring for vegetation success and periodic inspections for noxious weeds on reclaimed areas will be completed by the ROW holder. If noxious weeds are found, a licensed herbicide applicator will use herbicide or mechanical treatments to remove the noxious weeds. Mechanical methods, i.e., hand pulling and cutting plants at ground level may be necessary if the weed population is near desirable plant species or water bodies.
 - f. All vehicles and equipment will be power washed before transporting to the project area to prevent the spread of seed. Cleared vegetation and soil from an area known to have weeds will be stock piled in the immediate area and then replaced in the same area where the soils and vegetation were prior to disturbance. The ROW holder is responsible for weed control within the ROW throughout the life of the project.
 - g. An annual report showing the maximum daily loading rate for this facility will be submitted to the BLM in January of each year.
 - h. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public. All design, material, and construction, operation, maintenance, and termination practices shall be in accordance with safe and proven engineering practices.
 - i. The holder shall designate a representative who shall have the authority to act upon and to implement instructions from the authorized officer. The holder's representative shall be available for communication with the authorized officer within a reasonable time when construction or other surface disturbing activities are underway.

- j. The holder shall permit free and unrestricted public access to and upon the right-of-way for all lawful purposes except for those specific areas designated as restricted by the Field Manager or other authorized officer to protect the public, wildlife, livestock or facilities constructed within the right-of-way.
- k. The holder shall inform the Field Manager at (435) 636-3600 within 48 hours of any accidents on federal lands.
- l. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.
- m. The holder shall protect all survey monuments found within the right-of-way. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coastal and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, the holder shall immediately report the incident, in writing, to the authorized officer and the respective installing authority if known. Where General Land Office or Bureau of Land Management right-of-way monuments or references are obliterated during operations, the holder shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the Manual of Surveying Instructions for the Survey of the Public Lands in the United States, latest edition. The holder shall record such survey in the appropriate county and send a copy to the authorized officer. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the holder shall be responsible for the survey cost.

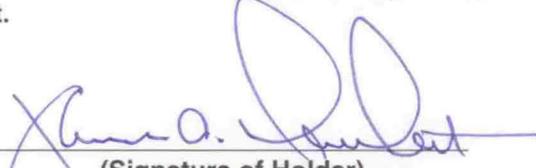
7. Construction / Maintenance

- a. The holder shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.
- b. The holder shall construct, operate, and maintain the facilities, improvements, and structures within this right-of-way in strict conformity with the plan of development which was approved and made part of this grant. Any relocation, additional construction, or use that is not in accord with the approved plan of development, shall not be initiated without the prior written approval of the authorized officer. A copy of the complete right-of-way grant, including all stipulations and approved plan of development, shall be made available on the right-of-way area during construction, operation, and termination to the authorized officer. Noncompliance with the above will be grounds for an immediate temporary suspension of activities if it constitutes a threat to public health and safety or the environment.
- c. The map, site plan, building design, floor plan, tower design, and electrical drawings submitted with the original proposal shall be made a part of this right-of-way grant. All construction must conform to these drawings and maps.
- d. The holder shall provide for the safety of the public entering the right-of-way. This includes, but is not limited to barricades for open trenches, flagmen/women with communication systems for single-lane roads without intervisible turnouts, and attended gates for blasting operations.
- e. If any clearing is needed, the right-of-way will be brush-hogged to prevent unnecessary disturbance. Only those areas where safety, absolute need for construction or other regulations may warrant the use of topsoil removal by blading or scalping. This right-of-way clearing shall be limited to the limits of the right-of-way. Suitable topsoil material removed in conjunction with clearing and stripping shall be conserved in stockpiles within the right-of-way.
- f. Prior to fill construction, the existing surface shall be sloped to avoid sharp banks and allow equipment operations. No fills shall be made with frozen or water saturated soils. Construction equipment shall be routed evenly over the entire width of the fill to obtain a thorough compaction.

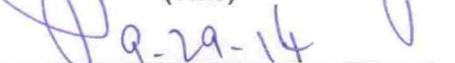
- g. Construction holes left open overnight shall be covered. Covers shall be secured in place and shall be strong enough to prevent livestock or wildlife from falling through and into a hole.
 - h. Holder shall limit excavation to the areas of construction. No borrow areas for fill material will be permitted on the site. All off-site borrow areas must be approved in writing by the authorized officer in advance of excavation. All waste material resulting from construction or use of the site by holder shall be removed from the site. All waste disposal sites on public land must be approved in writing by the authorized officer in advance of use.
 - i. Construction sites shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes, and equipment.
 - j. If during any phase of the construction, operation, or termination any oil or other pollutant should be discharged from containers or vehicles and impact Federal lands, the control and total removal, disposal, and cleanup of such oil or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of holder to control, cleanup, or dispose of such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the authorized officer may take such measures as he deems necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the authorized officer shall not relieve the holder of any liability or responsibility.
 - k. Any impacted fences, gates, brace panels and/or any other range improvements shall be reconstructed to appropriate Bureau standards and/or specifications as determined by the authorized officer.
 - l. The holder shall furnish and apply water for dust control, or other means satisfactory to the authorized officer.
 - m. No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
 - n. The holder shall construct waterbars on all disturbed areas as needed. Waterbars are to be constructed to: (1) simulate the imaginary contour lines of the slope (ideally with a grade of one or two percent); (2) drain away from the disturbed area; and (3) begin and end in vegetation or rock whenever possible.
 - o. A litter policing program shall be implemented by the holder, if requested and approved of in writing by the authorized officer, which covers all roads and sites associated with the right-of-way.
 - p. The holder shall be responsible for weed control on disturbed areas within the limits of the right-of-way. The holder is responsible for consultation with the authorized officer and/or local authorities for acceptable weed control methods (within limits imposed in the grant stipulations).
 - q. Holder shall maintain the right-of-way in a safe, usable condition, as directed by the authorized officer.
8. Reclamation / Rehabilitation / Termination
- a. Ninety (90) days prior to termination of the right-of-way, the holder shall contact the authorized officer to arrange a pre-termination conference. This conference will be held to review the termination provisions of the grant.
 - b. Upon grant termination by the Field Manager or other authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
 - c. The holder shall restore drainages, to the greatest extent possible, to the original bank configuration, stream bottom width, and channel gradient. Loose soil, fill, and culverts shall be removed from drainage channels as directed by the authorized officer.
 - d. The holder shall re-contour the disturbed area and obliterate all earthwork by removing embankments, backfilling excavations, and grading to re-establish the approximate original contours of the land in the right-of-way.

- e. The holder shall prepare a seedbed by scarifying the disturbed area, distributing topsoil uniformly, or disking the topsoil.
- f. The holder shall seed all disturbed areas that have been or are being reclaimed with a seed mixture(s) submitted to and approved by the authorized officer.

IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.

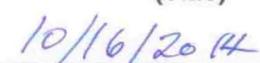


(Signature of Holder)


(Title)


(Date)



(Signature of BLM Authorized Officer)
Acting Field Manager, Price Field Office
(Title)


(Effective Date of Grant)

EXHIBIT A

INTERMOUNTAIN POWER AGENCY WILDCAT LOADOUT OIL LOADING AND STORAGE PROJECT PLAN OF DEVELOPMENT

Intermountain Power Agency (IPA) currently maintains a ROW (UTU-48027) for the Wildcat Loadout on approximately 250 acres of land utilized as coal preparation and loadout facility for some of the mines located within Central Utah. The loadout facility is located on Federal land in Carbon County, Utah (Figure 1). The loadout facility is located in Section 33, Township 13 South, Range 9 East, SLBM. Approximately 12.5 of the 250 acres are under BLM ROW for the Utah Railway (UTSL-015794). The loadout site is permitted under DOGM permit number ACT C/07/0033. The facility has three truck dumps, a unit train loading track, and numerous conveyor belts, as well as numerous structures to facilitate reclaiming, crushing, storing, and loading coal. The facility is connected with electric power and phone lines. All coal operations on the west side of the railway tracks ceased several years ago and the equipment is inactive.

Associated Energy Services, LP/Marlin Logistics, LLC (Marlin) purchases and markets locally produced crude oil. Crude oil is purchased at a crude oil lease wellhead or pad, transported by trucking companies, and delivered to Marlin terminals where the oil is loaded into Marlin railcars and transported to crude oil markets. Marlin is currently utilizing a portion of the Utah Railway ROW for the transfer of crude oil from tank trucks to railroad tank cars. The transfer of crude oil is entirely within the railroad ROW. Approximately 80 percent of the crude oil transferred at the Wildcat Loadout is waxy crude that is semi-solid at temperatures below 160 degrees Fahrenheit. Approximately 20 percent of the crude oil transferred at the site is non-waxy light sweet crude. Eight mobile pumping stations are located along the ROW to facilitate the transfer of oil from the trucks to the railcars. Trained and certified individuals unload trucks and load railcars to reduce the chance of spills or leaks. The railcars loaded with crude oil are then shipped to terminal refineries along the Gulf Coast, West Coast, and other locations within the rail road system. Once the railcars are emptied, they are returned for reloading.

Proposed Action

IPA proposes to amend the use of a portion of the BLM ROW UTU-48027 to allow petroleum loading on the west portion of the loadout facility west of the centerline of the existing mainline railroad line. IPA has a long-term "landlord/tenant" lease with Marlin to operate crude oil transloading operations at the Wildcat Loadout Facility. The current IPA ROW expires in 2014 and would be renewed until 2027. The proposed use of the ROW would require the construction of permanent crude oil storage tanks, additional railroad tracks, and loading racks in order to increase the output and efficiency of crude oil transport. The transloading facilities and operation would last as long as economically feasible, which is expected to continue for 20 or more years. Marlin has an encroachment permit for the use of Consumers Road for trucking oil into the loadout site. All construction would take place on IPA leased property on the west side of the Utah Railway tracks.

Surface Water

The natural drainage to the west of the facility would be dammed upstream from the existing impound cells to capture precipitation runoff from undisturbed areas further up the drainage. A diversion ditch would be constructed from the dam then south along the west side of the facility and to the tributary of Garley Wash south of the facility (see Figure 2). The ditch would require approximately 0.5 acres of undisturbed ground. The drainage ditch would prevent water runoff from flowing into the facility area. The existing impoundment cell ponds, the proposed diversion ditch, and proposed dam would be designed to hold runoff from a 100-year-24-hour precipitation event. Two ponds would be constructed within the facility area to capture runoff from within the facility and prevent water and potential oil spills from flowing out of the facility. One pond would be located south of the proposed truck unloading lanes and would capture runoff from the northern area. The other pond would be located near the existing refuse and topsoil storage piles and would capture runoff from the southern area. Both ponds would be lined with either a clay base or high-density polyethylene membrane. In the event that a major storm fills the ponds, water would be tested for quality according to the UPDES permit and pumped into the proposed diversion ditch only if water meets the quality standards. The three existing culverts under the rail lines would be removed or plugged to prevent water from the west side of the facility from entering the east side. The existing ponds on the east side of the facility would remain and would be maintained according to standards outlined in the DOGM Mining and Reclamation Plan (MRP). The current Spill Prevention Control and Countermeasure Plan (SPCC plan) would be followed to protect the undisturbed areas from accidental spills. The plan would be available for review at the loadout site. Construction workers and employees of the operation would be instructed on the information in the SPCC plan. In the event of a spill or release of petroleum, procedures outlined in the SPCC Plan would be followed. The BLM, as well as the Utah Department of Environmental Quality, would be notified if the spill meets the definition of a hazardous waste as defined in 40 CFR 261. A Storm Water Pollution Prevention Plan has also been developed and all procedures for spill prevention and response within the plan would be followed.

Construction

Phase 1 of the Proposed Action would be to create four permanent steel storage tanks, loading rail lines, truck unloading lanes, unloading racks and loading racks (see Figure 2). Inactive coal loading equipment at the facility would be removed to provide an area for crude oil loading equipment. All construction for loading equipment and tanks would be completed on previously disturbed ground, and no new disturbance areas would be required. Topsoil would not need to be salvaged as part of the construction activity. Topsoil was salvaged and stockpiled in association with the original construction under the DOGM MRP. Additional growth media was seeded and proved to be a suitable replacement for topsoil. The tank area would be graded with a rubber-tired class RG 50 grader, and a 225 class trackhoe, 560 class backhoe loader, or similar equipment to excavate the tank footings. Each individual tank location would be excavated to approximately five feet deep. An engineered concrete foundation would be constructed for each

tank. The reinforced one-foot high by three-foot wide footing below the frost line would support a nine-inch thick concrete wall that would contain compacted fill. A reinforced concrete pad would be poured on top of the wall with a rubber lining under the concrete pad and would have an early leak detection feature. The pad surface would have several open notches radiating from the center of the tank pad, each leading to the outside diameter of the tank. In the event the bottom of the tank leaks petroleum, the spill would be immediately noticeable at the outside diameter of the tanks on top of the concrete pad within the designed notches. The tank bottoms would be approximately 12 inches above ground level.

The tank construction would be completed on site using a 30 or 60-ton crane, portable welding equipment, and scaffolding. Construction of all four tanks by six workers is expected to last four to eight months. The tanks would be painted with a BLM approved color. An earthen berm would be constructed around the tanks to ensure adequate capacity to capture the content of 1.5 times the amount of the largest tank for a total containment volume of 150,000 barrels. Steps would be installed over the berm to provide access to the tanks and piping.

Two of the tanks would have a storage capacity of 100,000 barrels (4,200,000 gallons) and two tanks would have a storage capacity of 20,000 barrels (840,000 gallons). The total storage capacity of this system would be approximately 240,000 barrels (10,080,000 gallons). The 100,000 barrel tanks would have a diameter of 146 feet and would be approximately 40 feet in height. The 20,000 barrel tanks would have a diameter of 70 feet and would be approximately 32 feet in height. Each tank would have a sealed floating roof to prevent the escape of vapors. The tanks would contain coils for heating the oil during storage. The fluid within the coils would be heated by engineered electric heating elements.

A 5,000 gallon tank containing water with foam injection capabilities would be connected by pipe and pump to the tank roof to provide fire suppressant. The pipes will have a connecting valve outside of the berm to allow additional suppressant from truck tanks.

Four truck unloading lanes would be located within the site disturbance area on a 1.2-acre area that is currently in the reclamation process. Topsoil from the area of the unloading lanes would be salvaged, stored adjacent to the unloading lanes, and seeded with the seed mix listed in Table 1 or an adjusted seed mix approved by the BLM. An existing road crossing over the rail line would be designated as a topsoil access road to ensure topsoil availability to the eastern coal loading portion of the facility.

Truck unloading racks would be constructed adjacent to the unloading lanes. Four and six inch piping and fixed pumps would be installed to transfer oil from the tanker trucks to the storage tanks through a closed system to prevent vapors from escaping. The fixed pumps would be 50 to 100 horsepower motors that are approximately 20 inches wide and 48 inches tall and would be positioned near the tanks within the natural depression to increase pumping capability.

Up to four additional loading tracks would be constructed on the west side of the main rail line within the Utah Railway ROW and IPA ROW. One additional dual-sided railcar loading rack would be constructed adjacent to the loading tracks and would be connected to the tanks by four and six inch piping to create a closed system. All piping is steel construction and would be above ground, where feasible.

A smokeless, natural draft, air assisted and enclosed vapor combustor would be installed to combust any vapors generated during the loading process as required by the Utah Department of Environmental Quality. Two inch vapor vent manifold piping would be installed from each railcar station to the combustor where the vapors will be destroyed to a 98 percent destruction efficiency. The combustor would be approximately three feet in diameter and 20 feet tall utilizing propane for the pilot.

Approximately twelve new light posts would be installed at the truck unloading lanes, tank area, and railcar loading tracks. The lighting fixtures would be a cut-off design to cast light downward and minimize light pollution. All new light structures would be west of the existing rail line and would be pointed downward. On the existing facility east of the railroad tracks, angled or hooded shields would be installed on stacker walkways and all conveyor belt lights to direct the light toward the area requiring light and to prevent light emission in other directions.

Lights that cannot be shielded due to safety reasons, e.g. the truck dump and radial stacker flood lights, would not have additional shields added. The flood lights on the two radial stackers would be angled down as much as practical to light the required area and reduce side casted light. A manual switch would be installed so the flood lights on the radial stackers and truck dump could be turned off when not needed. Remaining lights that would not be shielded are relatively low and not visible from long distances.

A transformer substation would be installed adjacent to the southeast corner of the existing warehouse fence on the west side of the loadout facility. The substation would be located within the existing facility ROW. Two feeds would leave the substation. The first feed would be a pad mount transformer on the west side of the facility near the shop building. The two other buildings would be fed from the transformer by individual feeds. The second feed would be from a pad mount transformer near the tank area and future train loadout area. This transformer would feed to a proposed power controls building.

A 10,000 gallon self-contained diesel fuel tank would be installed adjacent to the truck unloading lanes. The tanks are designed and built with the fuel tank inside of a containment tank. The fuel would be used to fuel tanker trucks as well as coal-hauling trucks.

During construction and operations, the ground would be watered as necessary and vehicle speeds would be restricted to reduce fugitive dust. Marlin and IPA would abide by all applicable requirements for emission standards listed in Utah Administrative Code R307-205.

Phase 2 of the proposed action would be the construction of additional tanks to bring the storage volume to 350,000 barrels. Additional tanks would be of the same design and size of the tanks constructed during Phase 1. Timing of phase 2 is not known at this time and would be determined by the amount of available trucks, railcars, and crude oil product.

Operation

The waxy and non-waxy crude oil comes from two producing regions in Utah (Figure 3). The first region is within the Uintah Basin near Roosevelt, Duchesne, Altamont, Vernal, etc. The waxy crude oil from the Uintah Basin would be hauled over a number of county, state, and Federal highways. The oil would be first picked up at the well head or lease and transported over county roads until reaching Highways 40, 191, and 6. Trucks then travel on Consumers Road until reaching the Wildcat Loadout and turn onto a gravel road.

The second region comprises several fields in Central Utah with the majority of fields being located in Sevier County. This light sweet crude oil contains only a small amount of waxy paraffins and would be first picked up at the well head or lease and transported over county and state roads until reaching I-70 and Highways 10 and 6 until reaching Consumers Road. Trucks would then travel on Consumers road until reaching the loadout facility.

Crude oil trucks would enter the Wildcat Loadout Facility from Consumers Road west of the facility and along the existing road in a southerly direction to a multiple lane truck unloading rack previously used as the coal truck unloading grizzly. Trucks at the unloading rack would be emptied into the storage tanks through a closed system of steel piping and fixed pumps. The empty trucks would then exit the facility back to Consumers Road. Oil from the storage tanks would be pumped to railcars spotted on tracks dedicated for loading and protected from main line train operations. Utah Railway would provide rail service to the facility.

Initial transloading output would be approximately 6,000 barrels per day and could potentially increase to 20,000 barrels per day after Phase 2 construction is completed. The number of trucks travelling along Consumers Road would increase from the current 22 trucks per day to 72 trucks per day. Approximately 12 locally hired workers would be required for operations at the facility and many local truck drivers would be employed for transportation of crude oil to the facility. The facility would be operational at all times (24 hours per day, seven days per week) with workers that have been trained to provide security.

Marlin would be responsible to take all reasonable precautions to avoid spills. The SPCC plan would incorporate procedures and precautions with additional equipment and tanks to prevent and clean spills. Tanks would be maintained in a manner that would preclude leakage and provide applicable safety measures. Leaks and drips would be caught and spills contained and cleaned promptly. If oil is present in a transfer hose, the oil will be captured in a metal bucket and emptied into the railcar. In the event of a breakdown and a spill occurs, the incident would be reported within 24 hours and any necessary repairs would be made as quickly as possible.

Emergency spill containment supply kits would be stored on site and on all oil transport trucks. Spill kits would include a containment drum, absorbent pads and booms, and a drip pan. Truckers would be trained on proper loading and unloading safety procedures of crude oil. Railroad tank cars would be inspected before loading operations begin and drip pans would be used during the filling operation to prevent crude oil from reaching the ground. All applicable federal and state regulations regarding oil pollution control would be strictly enforced.

Abandonment and Reclamation

The coal loading area of the Wildcat Loadout Facility would be reclaimed by the ROW holder according to the DOGM Mining and Reclamation Plan as stated in permit number ACT C/07/0033 once that area of the facility is no longer needed. The oil loading portion of the ROW would be reclaimed in accordance with the MRP until DOGM no longer retains jurisdiction over the oil loading facility, at which time reclamation would be reclaimed by the ROW holder according to the Green River District Reclamation Guidelines.

Reclamation of the oil loading portion of the facility would begin immediately after oil loading operations have ceased and the area is no longer needed. All areas except for the sediment ponds would be recontoured and revegetated. The sediment ponds and diversion ditch would remain until the reclaimed areas have been revegetated. The sediment pond would be left in place to capture precipitation runoff from the reclamation area and to prevent runoff from leaving the site. Once the area has been revegetated, the sediment ponds would be reclaimed using the same methodology.

The loading tracks, tanks, pumps, berms, piping and other oil loading equipment would be removed. The concrete pads that supported the tanks would be removed. The refuse pile would be flattened and buried with at least four feet of native fill. The area would then be contoured to approximate the pre-disturbance topography. The site was generally flat with a shallow slope to the east. The original drainage would not be restored because the railroad tracks would impede the drainage. The last few lifts during the grading and recontouring would not be compacted. This would be completed for the last four feet and would eliminate the need to rip the subsoil before spreading topsoil. The topsoil pile and alternative growth media would be divided between the west and east areas as described in the MRP to provide surface soil for each area. The allotted topsoil or alternative growth media would be spread over the area during the first fall season following the completion of recontouring. The topsoil would then be gouged with rippers or pockmarked. The area would then be seeded with the certified weed-free seed mix shown in Table 1, or by an adjusted mix approved by the BLM authorized officer by hand-broadcast methods or hydroseeded and hydromulched.

Table 1 – Final Reclamation Seed Mix

Scientific Name	Common Name	PLS/Acre
<i>Amelanchier utahensis</i>	Utah Serviceberry	2 to 3
<i>Artemisia tridentata</i>	Big Sagebrush	0.06
<i>Krascheninnikovia lanata</i>	Winterfat	2.00
<i>Ericameria nauseosa</i>	Rubber Rabbitbrush	0.30
<i>Purshia tridentata</i>	Bitterbrush	up to 6.00
<i>Achillea millefolium</i>	Yarrow	0.05
<i>Hedysarum boreale</i>	Utah Sweetvetch	1.00
<i>Linum lewisii</i>	Lewis Flax	1.00
<i>Penstemon palmeri</i>	Palmer Penstemon	0.50
<i>Heliomeris multiflora</i>	Showy Goldeneye	0.20
<i>Bouteloua gracilis</i>	Blue Grama	0.60
<i>Pseudoroegneria spicata</i>	Bluebunch Wheatgrass	2.50
<i>Elymus trachycaulus trachycaulus</i>	Slender Wheatgrass	2.50
<i>Pleuraphis jamesii</i>	Galleta	2.50
<i>Hesperostipa comata</i>	Needle and Thread Grass	3.00
<i>Achnatherum hymenoides</i>	Indian Ricegrass	2.00
Total		21.21 to 27.21

Until reclamation bonding is transferred to the BLM ROW, monitoring would be conducted according to the existing MRP. Once the bond is transferred, monitoring would be conducted according to the Green River District Reclamation Guidelines. Monitoring would consist of qualitative methods during the second and fourth growing season following seeding. Qualitative methods would include ocular estimates of vegetation success and slope stability as well as monitoring for noxious weeds. Quantitative methods would be used during the third, fifth, and final year that reclamation is deemed successful. Quantitative methods would include measurement of vegetative cover by line-point intercept method. A reference area has been established near the southeastern corner of the ROW and would be used for comparison of vegetation cover. Recommendations for further seeding or soil supplements can be suggested during the any of the monitoring years. If any part of reclamation is detrimental to success, corrective measures would be taken. Once the vegetation has established a desired, self-perpetuating, diverse plant community and reaches 75 percent basal cover compared to the cover on the reference area, reclamation would be deemed successful according to the Green River District Reclamation Guidelines.

In addition to yearly monitoring for vegetation success, periodic inspection for noxious weeds during periods of no snow cover on reclaimed areas would be completed. If noxious weeds are found, a licensed herbicide applicator would use herbicide or mechanical treatments to remove the noxious weeds. Weed control objectives would be to limit the spread of existing weeds and prevent the introduction of invasive species. With the BLM’s approval, IPA or EAS would conduct pre-construction weed control by spraying noxious species with BLM approved herbicide. Mechanical methods, i.e., hand pulling and cutting plants at ground level, may be necessary if the weed population is near desirable plant species or water bodies.

All vehicles and equipment would be power washed before transporting to the project area to prevent the spread of seed. Cleared vegetation and soil from an area known to have weeds

would be stock piled in the immediate area and then replaced in the same area where the soils and vegetation were prior to disturbance. IPA or ROW holders would be responsible for weed control within the ROW throughout the life of the project. Herbicide would be applied during appropriate growth stages of the specific species for better control and prevention of their spread.

Once the area has been successfully revegetated, the sediment pond would be reclaimed and monitored using the same methodology.

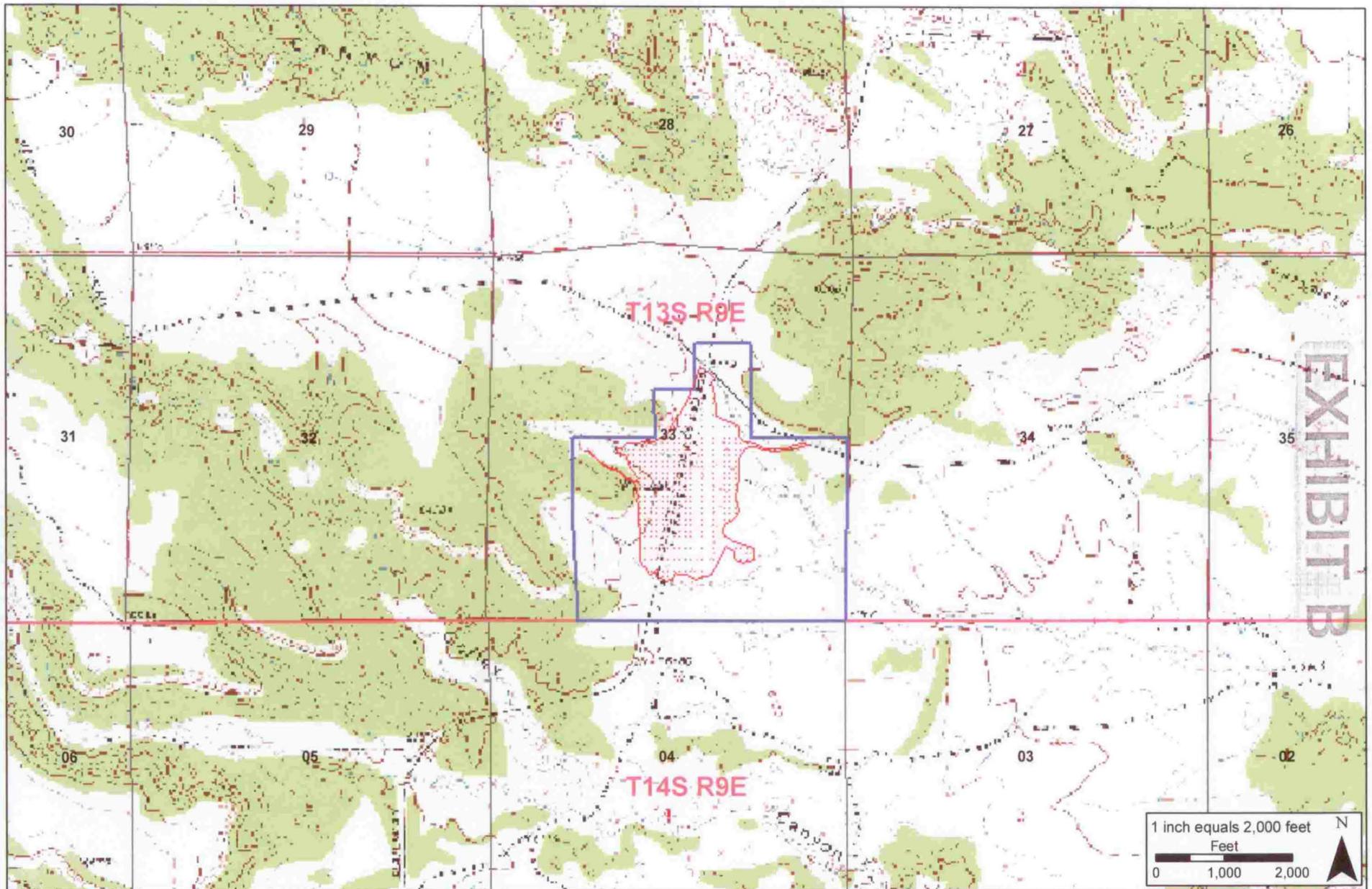


EXHIBIT B

Legend

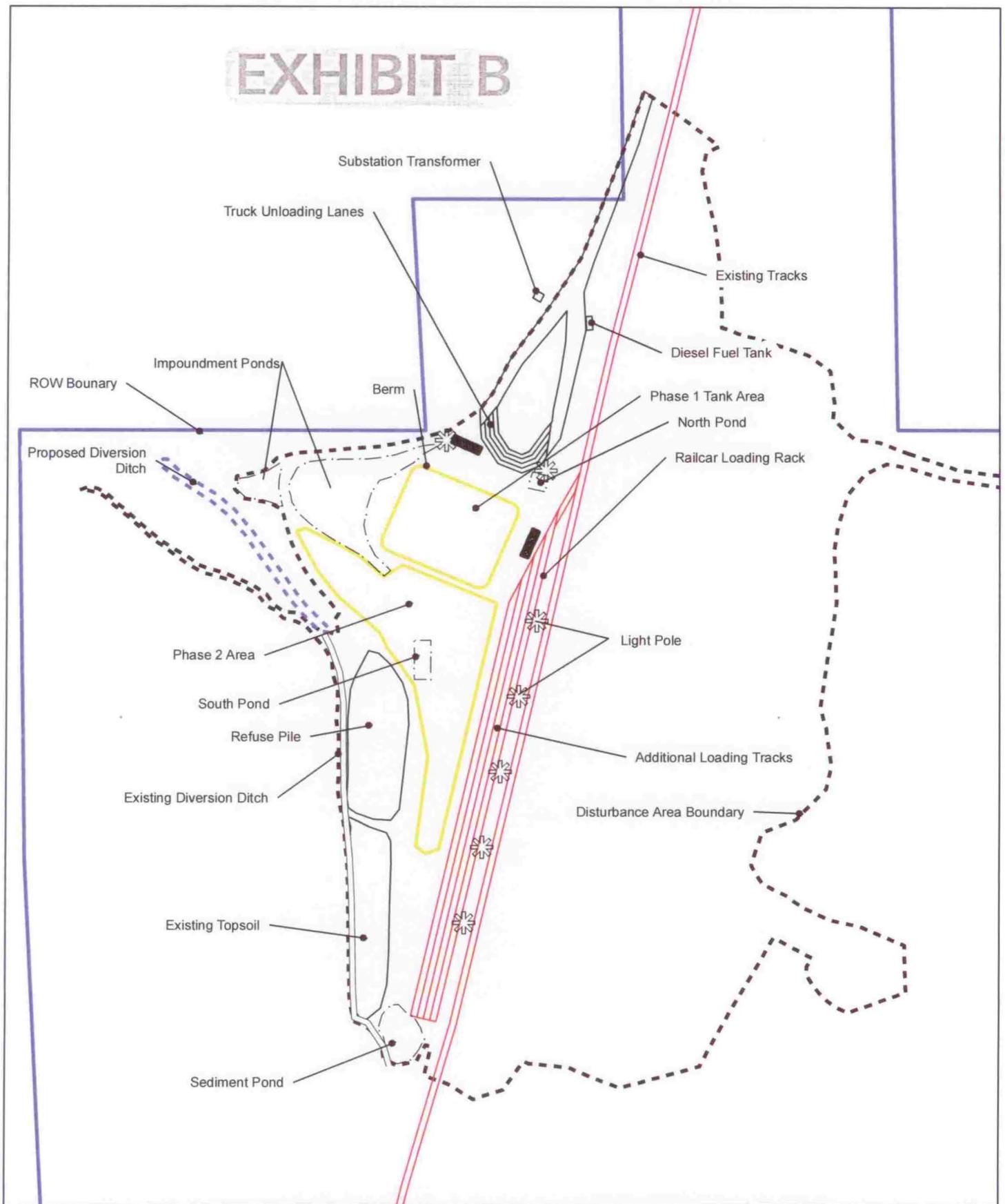
-  Existing Facility
-  ROW Area

Section 33
Township 13 South
Range 9 East
SLBM

Wildcat Loadout Modification EA
BLM Lease U-48027
General Location

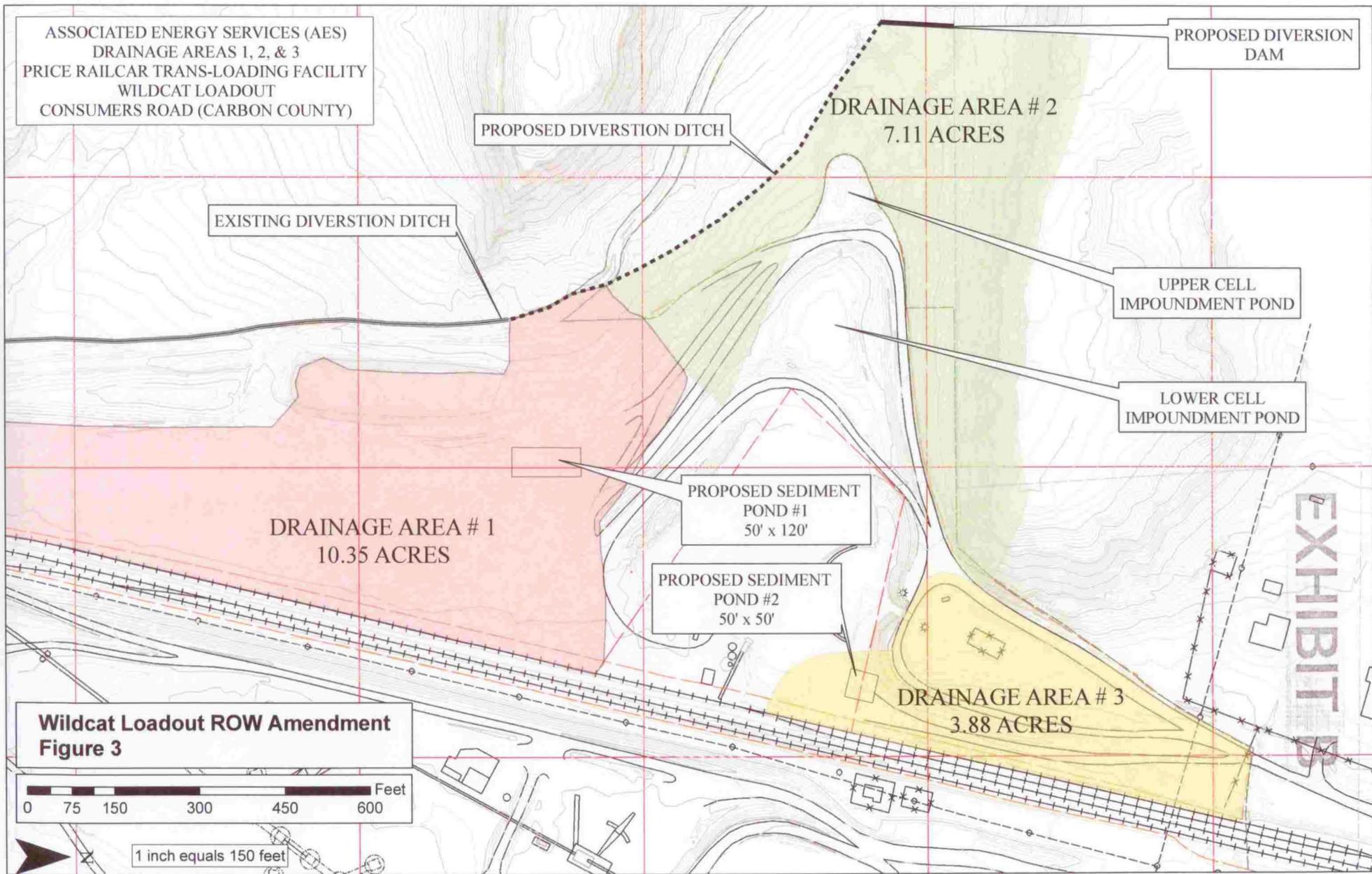
**Figure
1**

EXHIBIT B



**Wildcat Loadout Modification EA
BLM Lease U-48027
Site Layout**

**Figure
2**



Wildcat Loadout C/007/033

Bond Amount Rev. May 2014

Direct Costs			
Subtotal Demolition and Grading	\$337,574		\$209,252
Subtotal Backfilling and Grading	\$244,486		
Subtotal Revegetation	\$312,607		
Subtotal Direct Costs	<u>\$894,666</u>		<u>\$766,344</u>
Indirect Costs			
Mob/Demob	\$89,467	10.0%	\$76,634
Contingency	\$44,733	5.0%	\$38,317
Engineering Redesign	\$22,367	2.5%	\$19,159
Main Office Expense	\$60,837	6.8%	\$52,111
Project Management Fee	\$22,367	2.5%	\$19,159
Subtotal Indirect Costs	<u>\$239,771</u>	26.8%	<u>\$205,380</u>
Total Cost	<u>\$1,134,437</u>		<u>\$971,725</u>
Escalation Factor		0.7%	
Number of Years		5	
Escalation	<u>\$40,265</u>		<u>\$34,490</u>
Reclamation Cost.	\$1,174,702		\$1,006,215
Bond Amount (round to nearest \$1,000 in 2021 dollars)	\$1,175,000		\$1,006,000

Cost Factors

Means Number	Material	Unit Cost	Units
02 41 16.13 0100	Mixture of types, average	0.31	CF
Scamp Excavation	Concrete Demolition	18.00	CY
31 23 16.42 1300	Front End Loader 3 CY	1.69	CY
31 23 23.20 1014	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	3.09	CY
02 41 16.17 4200	On Site Disposal	9.07	CY
City Sanitation Price	City Sanitation	8.5	CY
02 41 16.13 0012	Steel Bld. Large	0.28	CF
02 41 13.80 0100	Utility Pole	205.5	EA
02 41 13.30 0800	Guard Rail	12.17	LF
02 41 13.60 1700	Chain link, posts & fabric remove only	3.07	LF
23 05 05.10 3600	Mechanical equipment heavy	795	Ton
31 23 16.42 0260	Backhoe, hydraulic Bulk Bank Measure	1.44	CY
31 23 16.13 3080	Backfill trench Minimal Haul 2 1/4 CY	1.79	CY
02 65 10.30 0120	6000 gal. to 8000 gal.tank	885	EA
02 65 10.30 1026	6000 gal. to 8000 gal.tank	880	EA
02 65 10.30 0130	9000 gal. to 12000 gal. tank	1325	EA
02 65 10.30 1029	9000 gal. to 12000 gal. tank	1050	EA
32 01 90 13 0180	Hydro Spreader (equip. & Labor) Reveg.	4.99	MSF
Great Basin	Seed Mix	1590.37	AC
32 91 13.16 0250	Mulch 2 Tons per Acre	69	MSF
01 54 33.20 4360	D9R Semi-U EROPS (9-25) (2H2007)	2392.00	/Day
01 54 33.20 4360	Hourly Cost		
01 54 33.20 4870	988 G EROPS (9-35) (2nd2007) 2005	3085.00	
01 54 33.20 4870	Hourly Cost		
01 54 33.20 3600	627 G Scraper	3735.00	
01 54 33.20 3600	Hourly Cost		
01 54 33.40 6950	6,000 Gal H2O Truck Diesel	1168.00	
01 54 33.40 6950	Hourly Cost		
01 54 33.40 7200	Pick-up Truck 4x4 1 Ton	156.80	
01 54 33.40 7200	Hourly Cost		
RSMeans Back Cover	Forman Average Outside	51.90	
RSMeans Back Cover	Labor	37.90	
RSMeans Back Cover	Truck Driver (Heavy)	43.20	
RSMeans Back Cover	Heavy Equip. Operator (Med)	51.10	
32 01 90.13 0180	Hydro Spreader (equip. & Labor) Reveg.	4.99	MSF
01 54 33 40 7300	Farm Tractor with DISC	358.80	/Day
02 41 16.13 0012	100,000 Barrel Steel Tank	0.28	CF
02 41 16.13 0012	20,000 Barrel Steel Tank	0.28	CF
22 05 05.10 2100	Steel Pipe 4"	9.45	LF
22 05 05.10 2100	Steel Pipe 6"	9.45	LF
23 05 05.10 0350	Boiler	2300	EA
23 05 05.10 0340	Vapor Combuster	840	EA
02 41 16.13 0020	5,000 Barrel. Tank	0.28	CF
02 41 13.80 0100	Lights	192	EA
To Be Sold	Pumps	0	EA
02 41 13.46 0100	Fire Protection (Steel Pipe w/insulation, 3/4"-4"	2.73	/FT

Loading Bin 01	1476
Scales 02	7647
Substation 03	6324
Truck Dump West 04	4152
Crushing Plant West 05	1232
Radial Stacker West 06	1581
Reclaim Tunnel West 07	9506
Loadout Conveyor West 08	1434
Control Building West 09	1541
Truck Dump Reclaim 10	5052
Conveyor 11	1808
Crusher Screen Plant 12	9849
Lump Coal Belt 13	612
Stoker radial Stacker 14	3440
Conveyor 15	3376
Main Radial Stacker 16	20114
Loadout Reclaim 17	20722
Loadout Tower 18	27131
Office 19	6689
Powerline 20	5138
Shop 21	12780
Guardrail 22	12170
Culverts 23	1991
Miscellaneous 24	6245
Truck Dump New 25	5059
Conveyor New 26	1403
Radial Stacker 27	19209
Conveyor 28	11570
Office Trailer 29	To be sold
Oil Storage Tanks (4) 30	55484
4 Inch Piping 31	9590
6 Inch Piping 32	42431
Misc. Equip. Removal 33	18513
Lighting 34	2304
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	337574
	209252

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Loading Bin 01																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	15	15	12								FT		2700	CF	756	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																			756	
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	30	18	1								FT		20	CY	360	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY												1.3				
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														26	CY	
		Disposal Costs	On Site Disposal		9.07	CY															26	CY
		Subtotal																			720	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			1476	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost			
		Scales 02																						
		Structure's Demolition Cost	Mixture of types, average	02 41 16.13 0100	0.31	CF	14	60	8								FT		6720	CF	2083			
		Structure's Vol. Demolished																0.35	87	CY				
		Rubble's Weight (exclude steel)																						
		Truck's Capacity																						
		Haulage																						
		Transportation Cost Non Steel Truck																						
		Transportation Cost Non Steel Drive																						
		Disposal Cost Non Steel	City Sanitation	City Sanitation Price	8.5	CY														87	CY	740		
		Steel's Weight																						
		Truck's Capacity																						
		Haulage																						
		Transportation Cost Steel Truck																						
		Transportation Cost Steel Drive																						
		Disposal Cost steel																						
		Subtotal																				2824		
		Structure's Demolition Cost																						
		Structure's Vol. Demolished	Steel Bld. Large	02 41 16.13 0012	0.28	CF	14	60	8								FT		6720	CF	1882			
		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 Drive																						
		Disposal Cost steel																						
		Subtotal																				1882		
		Concrete Demolition																						
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	14	70	0.5								FT		18	CY	324			
		Concrete's Vol. Demolished																1.3	23	CY				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY															23	CY	39	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY															23	CY	71	
		Disposal Costs	On Site Disposal		9.07	CY															23	CY	209	
		Subtotal																				643		
		Concrete Demolition																						
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	10	12	0.25								FT		1	CY	18			
		Concrete's Vol. Demolished																1.3	1	CY				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY															1	CY	2	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY															1	CY	3	
		Disposal Costs	On Site Disposal		9.07	CY																1	CY	9
		Subtotal																				32		
		Concrete Demolition																						
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	340	20	0.25								FT		63	CY	1133			
		Concrete's Vol. Demolished																1.3	82	CY				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY															82	CY	138	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY															82	CY	253	
		Disposal Costs	On Site Disposal		9.07	CY																82	CY	742
		Subtotal																				2267		
		Total																				7647		

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Substation 03																				
		Structure's Demolition Cost	Mechanical equipment heavy	23 05 05.10 3600	795	Ton								3			Ton		3	Ton	2385	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																			2385	
		Equipment's Disposal Cost																				
		Dismantling Cost	Chain link, posts & fabric remove only	02 41 13.60 1700	3.07	LF	250										LF		250	LF	768	
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																			768	
		Equipment's Disposal Cost																				
		Dismantling Cost	Utility Pole		205.5	EA											13	EA		13	EA	2672
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																			2672	
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	25	15	0.5								FT		7	CY	125	
		Concrete's Vol. Demolished																1.3	9	CY		
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														9	CY	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														9	CY	
		Disposal Costs	On Site Disposal		9.07	CY															9	CY
		Subtotal																			250	
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	25	15	0.5								FT		7	CY	125	
		Concrete's Vol. Demolished																1.3	9	CY		
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														9	CY	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														9	CY	
		Disposal Costs	On Site Disposal		9.07	CY															9	CY
		Subtotal																			250	
		Total																			6324	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Truck Dump West 04																				
		Structure's Demolition Cost	Steel Bld. Laroe	02 41 16.13 0012	0.28	CF	40	14	15								FT		8400	CF	2352	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				2352
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY						50					CY		50	CY	900	
		Concrete's Vol. Demolished																1.3	65	CY	110	
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY																
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY																
		Disposal Costs	On Site Disposal		9.07	CY																
		Subtotal																				1800
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				4152

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Crushing Plant West 05																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	20	15	10								FT		3000	CF	840	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				840
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	20	15	1								FT		11	CY	198	
		Concrete's Vol. Demolished																	1.3	14	CY	
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.68	CY														14	CY	24
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.08	CY														14	CY	43
		Disposal Costs	On Site Disposal		9.07	CY														14	CY	127
		Subtotal																				392
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				1232

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost		
		Radial Stacker West 06																					
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	150	8	8								FT		0	CF	0		
		Structure's Vol. Demolished																					
		Rubble's Weight (exclude steel)																					
		Truck's Capacity	Removed Prior to October 2011																				
		Haulage	Sent to Lila Canyon																				
		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 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 Demolition	Scamp Excavation		18	CY	150	8	1							FT		44	CY	792		
		Concrete's Vol. Demolished																	1.3	57	CY		
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY															57	CY	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY															57	CY	
		Disposal Costs	On Site Disposal		9.07	CY																57	CY
		Subtotal																				1581	
		Concrete Demolition																					
		Demolition Cost																					
		Concrete's Vol. Demolished																					
		Loading Cost																					
		Transportation Cost																					
		Disposal Costs																					
		Subtotal																					
		Total																				1581	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Reclaim Tunnel West 07																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	190	14	8								FT		21280	CF	5958	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				5958
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	190	14	1								FT		99	CY	1773	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY												1.3	128	CY	216	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY													128	CY	396	
		Disposal Costs	On Site Disposal		9.07	CY														128	CY	1162
		Subtotal																				3547
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				9506

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Loadout Conveyor West 08																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	320	4	4								FT		5120	CF	1434	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				1434
		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																				1434

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Control Building West 09																			
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	30	15	8								FT		3600	CF	1008
		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 Drive																			
		Disposal Cost steel																			
		Subtotal																			1008
		Equipment's Disposal Cost																			
		Dismantling Cost																			
		Equipment's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	40	20	0.5								FT		15	CY	267
		Concrete's Vol. Demolished																	1.3	19	CY
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.68	CY															33
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.08	CY															60
		Disposal Costs	On Site Disposal		9.07	CY															175
		Subtotal																			533
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			1541

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Truck Dump Reclaim 10																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	40	14	15								FT		8400	CF	2352	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				2352
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavatio		18	CY					75					CY		75	CY	1350	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY												1.3	98	CY	165	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY													98	CY	301	
		Disposal Costs	On Site Disposal		9.07	CY														98	CY	884
		Subtotal																				2700
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				5052

Ref.	Task	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 11																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	250	4	4								FT		4000	CF	1120	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				1120
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavator		18	CY	15	35	1							FT		19	CY	342	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY												1.3	25	CY	42	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY													25	CY	77	
		Disposal Costs	On Site Disposal		9.07	CY														25	CY	227
		Subtotal																				688
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				1808

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Crusher Screen Plant 12																			
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	44	20	15								FT		13200	CF	3696
		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 Drive																			
		Disposal Cost steel																			
		Subtotal																			3696
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	35	30	8								FT		8400	CF	2352
		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 Drive																			
		Disposal Cost steel																			
		Subtotal																			2352
		Concrete Demolition																			
		Demolition Cost	Concrete Demolition	Scamp Excavator	18	CY	57	50	1								FT		106	CY	1900
		Concrete's Vol. Demolished																1.3	137	CY	
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														137	CY
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Tr	31 23 23.20 1014	3.09	CY														137	CY
		Disposal Costs	On Site Disposal		9.07	CY															137
		Subtotal																			3801
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			9849

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost		
		Lump Coal Belt 13																					
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	100	3	3								FT		900	CF	252		
		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 Drive																					
		Disposal Cost steel																					
		Subtotal																				252	
		Equipment's Disposal Cost																					
		Dismantling Cost																					
		Equipment's Vol. Demolished																					
		Loading Costs																					
		Transport Costs																					
		Disposal Costs																					
		Subtotal																					
		Concrete Demolition																					
		Demolition Cost	Concrete Demolition	Scamp Excavator		18	CY					10					CY		10	CY	180		
		Concrete's Vol. Demolished																					
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY													1.3	13	CY	22	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														13	CY	40	
		Disposal Costs	On Site Disposal		9.07	CY															13	CY	118
		Subtotal																				360	
		Concrete Demolition																					
		Demolition Cost																					
		Concrete's Vol. Demolished																					
		Loading Cost																					
		Transportation Cost																					
		Disposal Costs																					
		Subtotal																					
		Total																				612	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Stoker radial Stacker 14																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	100	10	10								FT		10000	CF	2800	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				2800
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	60	8	1								FT		18	CY	320	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY												1.3	23	CY	39	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY													23	CY	71	
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														23	CY	210
		Subtotal																				640
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				3440

Ref.	Task	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 15																			
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	600	4	4								FT		9600	CF	2688
		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 Drive																			
		Disposal Cost steel																			
		Subtotal																			2688
		Equipment's Disposal Cost																			
		Dismantling Cost																			
		Equipment's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	35	15	1								FT		19	CY	342
		Concrete's Vol. Demolished																	1.3	25	CY
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.68	CY														25	CY
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.08	CY														25	CY
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														25	CY
		Subtotal																			688
		Concrete Demolition																			
		Demolition Cost																			
		Concrete's Vol. Demolished																			
		Loading Cost																			
		Transportation Cost																			
		Disposal Costs																			
		Subtotal																			
		Total																			3376

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Main Radial Stackler 16																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	260	15	15								FT		58500	CF	16380	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																			16380	
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavatio	18	CY	280	10	1								FT		104	CY	1867	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY												1.3	135	CY	228	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY													135	CY	417	
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														135	CY	1223
		Subtotal																			3734	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			20114	

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Loadout Reclaim 17																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	750	4	8								FT		24000	CF	6720	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				6720
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	750	14	1								FT		389	CY	7000	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY												1.3	506	CY	854	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY													506	CY	1562	
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY													506	CY	4585	
		Subtotal																				14002
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				20722

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Nimber	Unit	Swell Factor	Quantity	Unit	Cost
		Loadout Tower 18																			
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	35	40	60								FT		84000	CF	23520
		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 Drive																			
		Disposal Cost steel																			
		Subtotal																			23520
		Equipment's Disposal Cost																			
		Dismantling Cost																			
		Equipment's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs																			
		Subtotal																			
		Concrete Demolition																			
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	12	8	1								FT		4	CY	64
		Concrete's Vol. Demolished																1.3	5	CY	8
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY															
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Tri	31 23 23.20 1014	3.09	CY															
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															
		Subtotal																			128
		Concrete Demolition																			
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	12	18	1								FT		8	CY	144
		Concrete's Vol. Demolished																1.3	10	CY	17
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY															
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Tri	31 23 23.20 1014	3.09	CY															
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															
		Subtotal																			283
		Concrete Demolition																			
		Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	40	60	1								FT		89	CY	1600
		Concrete's Vol. Demolished																1.3	116	CY	195
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY															
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Tri	31 23 23.20 1014	3.09	CY															
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY															
		Subtotal																			3200
		Total																			27131

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	
	Office 19																				
	Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	40	30	8								FT		9600	CF	2688	
	Structure's Vol. Demolished																0.35	124	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	City Sanitation	City Sanitation Price	8.5	CY													124	CY	1054	
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Drive																				
	Disposal Cost steel																				
	Subtotal																			3742	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	66	30	0.5								FT		37	CY	660	
	Concrete's Vol. Demolished																1.3	48	CY		
	Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														48	CY	81
	Transportation Cost	12 Cv (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														48	CY	147
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														48	CY	432
	Subtotal																			1320	
	Concrete Demolition																				
	Demolition Cost	Concrete Demolition	Scamp Excavation	18	CY	70	35	0.5								FT		45	CY	810	
	Concrete's Vol. Demolished																1.3	59	CY		
	Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														59	CY	100
	Transportation Cost	12 Cv (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														59	CY	182
	Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														59	CY	535
	Subtotal																			1627	
	Total																			6689	

Ref.	Task	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 20																				
		Structure's Demolition Cost	Utility Pole		205.5	EA										25	EA		25	EA	5138	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				5138
		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																				5138

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Shop 21																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	40	45	20								FT		36000	CF	10080	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				10080
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation		18	CY	45	45	1							FT		75	CY	1350	
		Concrete's Vol. Demolished																	1.3	98	CY	
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														98	CY	165
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														98	CY	301
		Disposal Costs	On Site Disposal	02 41 16.17 4200	9.07	CY														98	CY	884
		Subtotal																				2700
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				12780

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Guardrail 22																			
		Structure's Demolition Cost	Guard Rail	02 41 13.30 0800	12.17	LF	1000										FT		1000	FT	12170
		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 Drive																			
		Disposal Cost steel																			
		Subtotal																			12170
		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																			12170

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
		Miscellaneous 24																			
		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 Drive																			
		Disposal Cost steel																			
		Subtotal																			
		Water Tank																			
		Equipment's Disposal Cost	6000 gal. to 8000 gal.tank	02 65 10.30 0120	885	EA						8000					GAL		1	EA	885
		Dismantling Cost																			
		Equipment's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs	9000 gal. to 12000 gal. tank	02 65 10.30 1029	1050	EA						8000					GAL		1	EA	1050
		Subtotal																			1935
		Water Tank																			
		Equipment's Disposal Cost	6000 gal. to 8000 gal.tank	02 65 10.30 0120	885	EA						6000					GAL		1	EA	885
		Dismantling Cost																			
		Equipment's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs	9000 gal. to 12000 gal. tank	02 65 10.30 1029	1050	EA						6000					GAL		1	EA	1050
		Subtotal																			1935
		Water Tank																			
		Equipment's Disposal Cost	9000 gal. to 12000 gal. tank	02 65 10.30 0130	1325	EA						10000					GAL		1	EA	1325
		Dismantling Cost																			
		Equipment's Vol. Demolished																			
		Loading Costs																			
		Transport Costs																			
		Disposal Costs	9000 gal. to 12000 gal. tank	02 65 10.30 1029	1050	EA						10000					GAL		1	EA	1050
		Subtotal																			2375
		Total																			6245

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Truck Dump New 25																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	40	14	15								FT		8400	CF	2352	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																			2352	
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation		18	CY					75					CY		75	CY	1350	
		Concrete's Vol. Demolished																				
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY													1.3	98	CY	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														98	CY	
		Disposal Costs	On Site Disposal		9.07	CY															98	CY
		Subtotal																			2707	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			5059	

Ref.	Task	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 New 26																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	250	4	4								FT		4000	CF	1120	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				1120
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation		18	CY	15	15	1							FT		8	CY	144	
		Concrete's Vol. Demolished																	1.3	10	CY	
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														10	CY	17
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														10	CY	31
		Disposal Costs	On Site Disposal		9.07	CY														10	CY	91
		Subtotal																				283
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				1403

Ref.	Task	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
		Radial Stacker 27																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.28	CF	250	15	15								FT		56250	CF	15750	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																				15750
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavation		18	CY	260	10	1							FT		96	CY	1728	
		Concrete's Vol. Demolished																	1.3	125	CY	
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														125	CY	211
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														125	CY	386
		Disposal Costs	On Site Disposal		9.07	CY														125	CY	1134
		Subtotal																				3459
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																				19209

Ref.	Task	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 28																				
		Structure's Demolition Cost	Steel Bld. Large	02 41 16.13 0012	0.31	CF	1250	7	4								FT		35000	CF	10850	
		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 Drive																				
		Disposal Cost steel																				
		Subtotal																			10850	
		Equipment's Disposal Cost																				
		Dismantling Cost																				
		Equipment's Vol. Demolished																				
		Loading Costs																				
		Transport Costs																				
		Disposal Costs																				
		Subtotal																				
		Concrete Demolition																				
		Demolition Cost	Concrete Demolition	Scamp Excavatio	18	CY						20					CY		20	CY	360	
		Concrete's Vol. Demolished																	1.3	26	CY	
		Loading Cost	Front End Loader 3 CY	31 23 16.42 1300	1.69	CY														26	CY	
		Transportation Cost	12 Cy (16 Ton) dump Truck 1/2 mi. rod. Trip	31 23 23.20 1014	3.09	CY														26	CY	
		Disposal Costs	On Site Disposal		9.07	CY															26	CY
		Subtotal																			720	
		Concrete Demolition																				
		Demolition Cost																				
		Concrete's Vol. Demolished																				
		Loading Cost																				
		Transportation Cost																				
		Disposal Costs																				
		Subtotal																				
		Total																			11570	

Ref.	Task	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 Trailer 29																				
		Structure's Demolition Cost																				To be sold
		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 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																				
		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																				To be sold

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
	Oil Storage Tanks (4) 30																			
	Structure's Demolition Cost	100,000 Barrel Steel Tank	02-41-16-13-0012	0.28	CF				40	146		689663.5						1467	CF	411
		100,000 Barrel Steel Tank							40	146.92		689929.8								
	Structure's Demolition Cost	20,000 Barrel Steel Tank	02-41-16-13-0012	0.28	CF				32	70		123150.7						563	CF	158
	Structure's Vol. Demolished								32	69.92		122869.4								
	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																			569
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	100,000 Barrel Tanks																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	Scamp Excavator	18	/CY				4	728	728				2			122	CY	2196
	Concrete's Vol. Demolished																	4.3	469	CY
	Loading Cost	Front end loader 3 CY	31-23-16-42-1300	1.69	/CY				6	183	915								469	CY
	Transportation Cost	42 CY (16 Ton) Dump Truck 1/2	31-23-23-20-1020	3.09	/CY														469	CY
	Disposal Costs	Disposal on-site	02-41-16-17-4200	9.07	/CF														469	CY
	Subtotal																			4398
	20,000 Barrel Tanks																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	02-41-16-13-1140	18	/CY				4	370	370				2			61	CY	1098
	Concrete's Vol. Demolished																	1.3	79	CY
	Loading Cost	Front end loader 3 CY	31-23-16-42-1300	1.69	/CY				6	92	469								79	CY
	Transportation Cost	42 CY (16 Ton) Dump Truck 1/2	31-23-23-20-1020	3.09	/CY														79	CY
	Disposal Costs	Disposal on-site	02-41-16-17-4200	9.07	/CF														79	CY
	Subtotal																			2193
	Scamp Excavation																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	02-41-16-13-1140	18	/CY				0.75	466	631				2				1342	CY
	Concrete's Vol. Demolished								0.75	80	140				2			1.3	1745	CY
	Loading Cost	Front end loader 3 CY	31-23-16-42-1300	1.69	/CY															1745
	Transportation Cost	42 CY (16 Ton) Dump Truck 1/2	31-23-23-20-1020	3.09	/CY															1745
	Disposal Costs	Disposal on-site	02-41-16-17-4200	9.07	/CF															1745
	Subtotal																			48324
	Total																			55484

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
	4 Inch Piping 31																			
	Structure's Demolition Cost	Steel Pipe 4"	22-05-05-10-2100-	9.45	LF	1011										FF		1011	LF	9554
	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																			9554
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	02-41-16-13-1140-	48	/CY	1	1	1							34			1	CY	48
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31-23-16-42-1300	1.69	/CY													1.3	CY	2
	Transportation Cost	42 CY (16 Ton) Dump Truck 1/2 mi. rhd. trip	31-23-23-20-1020-	3.08	/CY													1.3	CY	4
	Disposal Costs	Disposal on site	62-41-16-17-4200	9.97	/CF													1.3	CY	42
	Subtotal																			96
	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																			9590

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	
	6 Inch Piping 32																				
	Structure's Demolition Cost	Steel Pipe 6"	22-05-05-10-2100	0.45	/LF	4326										FT		4326	LF	40881	
	Structure's Vol.																				
	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																				40881
	Concrete Demolition																				
	Demolition Cost	Concrete-demolition	ConcreteDeme1	18.00	/CY	4	2	1								444	FT		43	CY	774
	Concrete's Vol. Demolished																	4.3	56	CY	
	Loading Cost	Front-end loader 3 CY	31-23-16-42-1300	1.69	/CY														56	CY	95
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip	31-23-23-20-1020	3.09	/CY														56	CY	173
	Disposal Costs	Disposal-on-site	02-41-16-17-4200	9.07	/CY														56	CY	508
	Subtotal																				1560
	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																				42431

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
	Misc. Equip. Removal 33																			
	Structure's Demolition Cost	Pumps	To Be Sold		0 EA										12			12 EA		0
	Subtotal																			0
	Structure's Demolition Cost	Boiler	23-05-05-10-0360	2300	EA										4			4 EA		2300
	Subtotal																			2300
	Structure's Demolition Cost	Fire Protection (Steel Pipe w/insulation - 3/4" 4"	02-41-12-46-0100	2.73	EA										500			500 FT		1365
	Structure's Demolition Cost	5,000 Barrel Tank	02-41-16-13-0020	0.28	CF						30788				1			30788 CF		8621
	Subtotal																			9986
	Structure's Demolition Cost	Diesel Tank																		To be sold
	Subtotal																			
	Tank Foundation																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	Scamp Excavator	48.00	CY			2		1590	448							448		2124
	Concrete's Vol. Demolished																1.3	153		
	Loading Cost	Front-end loader 3 CY	31-23-16-42-1300	1.60	CY													153		260
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31-23-23-20-1014	3.00	CY													153		473
	Disposal Costs	Disposal on site	02-41-16-17-4200	9.07	CY													153		1388
	Subtotal																			4244
	Structure's Demolition Cost																			
	Substation	Mechanical equipment heavy	23-05-05-10-3600	765	Ton														2 Ton	1530
	Fence	Chain link, posts & fabric remove only	02-41-13-80-1700	2.98	LF	105												105 LF		313
	Subtotal																			1849
	Substation Foundation																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	Scamp Excavator	48.00	CY	40	40	4										4 CY		72
	Concrete's Vol. Demolished																1.3	5 CY		
	Loading Cost	Front-end loader 3 CY	31-23-16-42-1300	1.60	CY													5 CY		8
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31-23-23-20-1014	3.00	CY													5 CY		15
	Disposal Costs	Disposal on site	02-41-16-17-4200	9.07	CY													5 CY		45
	Subtotal																			140
	Total																			18513

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
	Lighting 34																			
	Structure's Demolition Cost	Lights	02-41-13-80-0100	192	EA										42			42	EA	2904
	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																			2904
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition																		
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY																		
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip																		
	Disposal Costs	Disposal on site																		
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition																		
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY																		
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip																		
	Disposal Costs	Disposal on site																		
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition																		
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY																		
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip																		
	Disposal Costs	Disposal on site																		
	Subtotal																			
	Total																			2904

Cleanup 01	8375
Regrading 02	206500
Topsoil 03	<u>29611</u>
	244486

	Task	Equipment Cost	Hourly Operating Rate	Equipment Overhead	Operator's Hourly Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Cleanup 01																
Wildcat loadout Cleanup Coal Pile																
D9R Semi-U EROPS (9-25) (2H2007)		199.33			43.20	242.53	1	242.53	\$/HR	1500	CY	187	CY/HR	8	HR	1945
988 G EROPS (9-35) (2nd2007) 2005		257.08			43.20	300.28	1	300.28	\$/HR	1500	CY	187	CY/HR	8	HR	2409
Labor					37.90	37.90	1	37.90	\$/HR					16	HR	606
Forman Average Outside					51.90	51.90	1	51.90	\$/HR					16	HR	830
6,000 Gal H2O Truck Diesel		97.33			51.10	148.43	1	148.43	\$/HR					16	HR	2375
Pick-up Truck 4x4 1 Ton		13.07				13.07	1	13.07	\$/HR					16	HR	209
																8375

	Task	Equipment Cost	Hourly Operating Rate	Equipment Overhead	Operator's Hourly Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Regrading 02																
Wildcat Loadout Recontour/Regrade																
D9R Semi-U EROPS (9-25) (2H2007)		199.33			43.20	242.53	1	242.53	\$/HR	38872	CY	187	CY/HR	207.9	HR	50416
627 G Scraper		311.25			43.20	354.45	1	354.45	\$/HR	38872	CY	332.6	CY/HR	116.9	HR	41426
988 G EROPS (9-35) (2nd2007) 2005		257.08			43.20	300.28	1	300.28	\$/HR					207.9	HR	62420
CLAB					37.90	37.90	1	37.90	\$/HR					207.9	HR	7878
Foreman Average, Outside					51.90	51.90	1	51.90	\$/HR					207.9	HR	10789
5,000 Water Truck Diesel		97.33			51.10	148.43	1	148.43	\$/HR					207.9	HR	30855
Pickup Truck 4X4 1 Ton		13.07				13.07	1	13.07	\$/HR					207.9	HR	2716
																206500

	Task	Equipment Cost	Hourly Operating Rate	Equipment Overhead	Operator's Hourly Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost	
Topsoil 03																	
Wildcat Loadout Topsoil																	
627 G Scraper		311.25			43.20	354.45	1	354.45	\$/HR	15549	CY	566	CY/HR	27	HR	9737	
D9R Semi-U EROPS (9-25) (2H2007)		199.33			43.20	242.53	1	242.53	\$/HR	10000	CY	187	CY/HR	53	HR	12970	
Labor						37.90	1	37.90	\$/HR						27	HR	1041
Forman Average Outside						51.90	1	51.90	\$/HR						27	HR	1426
6,000 Gal H2O Truck Diesel		97.33			51.10	148.43	1	148.43	\$/HR						27	HR	4078
Pick-up Truck 4x4 1 Ton		13.07				13.07	1	13.07	\$/HR						27	HR	359
																	29611

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
	Revegetation Costs																			
	Ground Preparation	Backfill trench Minimal Haul 2 1/4 CY	31 23 16.13 3080	1.79	CY					81.79						AC		27809	CY	49778
	Seeding	Hydro Spreader (equip. & labor)	Reveg005	4.99	MSF					81.79						AC		3562.8	MSF	17778
	Seeding	Seed (Material costs)	C007/0331	1590.37	AC					81.79						AC		81.8	AC	130076
	Mulch 2 tons per acre	Hay Bale	Reveg007	69	Ton					81.78						AC		164	Ton	11316
	Mulch	Hydro Spreader (equip. & labor)	32 01 90 13 0180	4.99	MSF					81.79						AC		3562.8	MSF	17778
	Subtotal																			208949
	6.82 AC Disturbance																			
	Scrape Area of Coal Fines	D9/Production Rate of 180	1 ACRE inch	280	Per HR			1 Inch		6.83	128	145	Ton	1 HR	128	CY		128	CY	280
	Hydro Seed	Equipment and Labor	32 01 90.13 0180	4.99	MSF					6.83								298	MSF	1487
	Wildcat Loadout Seed Mix	Approved Reclamation Seed Mix	Great Basin	1590.37	AC					6.83								6.83	AC	10862
	Mulch/Straw Spreader	Straw Bales/ 1 Ton per Acre	32 91 13.16 0250	69	MSF					6.83								298	MSF	20562
	Mulch/Straw Spreader	Equipment and Labor	32 01 90 13 0180	4.99	MSF					6.83								298	MSF	1487
	Crimp/DISC Straw into Ground	Fram Tractor with DISC	01 54 33 40 7300	358.80	HR					6.83								16	HR	5741
	Labor/Farm Tractor	Equipment		358.80	/Day					6.83								2	Days	718
	Subtotal																			41137
	Reseeding																			
	Assume 25% reseeding rate																			62521
	Subtotal																			62521
	Total																			312607