INTERWEST MINING COMPANY
A SUBSIDIARY OF PACIFICORP

Interwest Mining Company
Huntington Office
P. O. Box 310
15 North Main Street
Huntington, UT 84528

February 01, 2019

RECEIVED
FEB 04 2019
DIV OF OIL, GAS & MINING

Utah Coal Program
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

**Subj: Amendment to Deer Creek Mine Permit C/015/0018 – Remove Deer Creek Waste Rock Site from Permit, Task #5845 – Clean Copies Submittal**

PacifiCorp, by and through its wholly-owned subsidiary, Interwest Mining Company "Interwest", hereby submits 2 clean copies of the revised application for removal of the Deer Creek Waste Rock Site from the Deer Creek Mine Permit. The amendment was conditionally approved on January 31, 2019.

The clean copies enclosed herein are for the Deer Creek Permit volume only. Interwest will defer submission of the clean copies for the Legal and Financial Volume until the Legal and Financial Volume can be amended in its entirety to reflect a number of changes including the Waste Rock Site removal, the Deer Creek Mine Left Fork portals bond release, and other items that need to be corrected and updated. The Legal and Financial Volume amendment will be submitted within the time period specified for this clean copy submittal.

Note: In the Bonding section, on the Rilda Canyon Revegetation page, one cell, in the Mulching subcategory, Hydromulch section, "CLAB," row, the cell in the Cost Revised December 2018 column, was inadvertently left blank in the original red-line submittal. This cell has now been filled in, the total cost on this page has changed by $1264.80, and other cells linked to this one have changed correspondingly. The overall effect on total costs is negligible. The overall bond estimate is still less than the bond amount.

If you have any questions or concerns regarding this notification, please contact myself at 435-687-4712 or Dennis Oakley at 435-687-4825.

Sincerely,

Kenneth S. Fleck

Kenneth Fleck
Geology and Environmental Affairs Manager

Cc: Chuck Semborski, IMC
Dennis Oakley, IMC
Scott Child, IMC
Justin Eatchel, DOGM

# APPLICATION FOR COAL PERMIT PROCESSING
## Detailed Schedule Of Changes to the Mining And Reclamation Plan

**Permittee:** PacifiCorp
**Mine:** Deer Creek Mine **Permit Number:** C/015/0018
**Title:** Amendment to Update the Deer Creek Mining and Reclamation Permit to Remove the Waste Rock Site from the Mining and Reclamation Plan & Update Bond, PacifiCorp, Deer Creek Mine, C/015/0018, Emery County, Utah.

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

| | | | DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED |
|---|---|---|---|
| ☒ Add | ☐ Replace | ☐ Remove | Volume 1, Informational Cover Page |
| ☐ Add | ☒ Replace | ☐ Remove | Volume 1, Table of Contents |
| ☐ Add | ☒ Replace | ☐ Remove | Volume 1, Part 2, Map HM-1A |
| ☐ Add | ☒ Replace | ☐ Remove | Volume 2, R645-301-800 Bonding - Deer Creek Mine Reclamation Bond Estimates |
| ☐ Add | ☐ Replace | ☒ Remove | Volume 3, Appendix XII |
| ☐ Add | ☐ Replace | ☒ Remove | Volume 3, Appendix XIII |
| ☐ Add | ☒ Replace | ☐ Remove | Legal & Financial Volume, App. B, General Environmental Permits Table |
| ☐ Add | ☒ Replace | ☐ Remove | Legal & Financial Volume, App. G, Deer Creek Permit Boundary Desc. Page DC-6, DC-7 |
| ☐ Add | ☐ Replace | ☐ Remove | |
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| **Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.** | **Received by Oil, Gas & Mining** |
|---|---|
| | |

Volume 1

Informational Cover Page

Add

# Informational Cover Page – Volume 1

The Deer Creek coal mining complex is located within Huntington Canyon approximately 10 miles west of the town of Huntington in Emery County, Utah. This coal mining complex consists of surface support facilities situated within Deer Creek and Rilda Canyons including an off-site waste rock storage area located east of the Huntington Power Plant.

Since mine closure was announced on December 15, 2014, efforts have been made to complete all mine closure activities including the construction of permanent portal seals for the entire Deer Creek Mine. The construction of the portal seals in Rilda Canyon during December 2017 completed the final closure of the Deer Creek Mine that was originally envisioned when mine closure was first announced in December 2014.

Since the closure announcement, large portions of the southern area of the mine were sealed off during April 2015, with the remaining Rilda Canyon portion left open while implementing mitigation measures to handle anticipated intercepted groundwater. The final sealing of the Rilda Canyon Right Fork portals consisted of first constructing a water drainage system inclusive of an in-mine collection gallery and then the construction and permanent placement of a buried water pipeline from the Rilda Canyon Right Fork portal to the Huntington Power Plant raw water pond. This pipeline project was completed November 2017.

The final Rilda Canyon portal sealings consisted of two 25-foot thick concrete portal plugs with water drains, one each in the 1st Right facility fan and roadway portals that were constructed on November 8 and 10, 2017, and high strength Strata panel portal seals, one each in the Left Fork facility fan and the roadway portals completed on December 18 and December 20, 2017. The portal seals were constructed to meet or exceed regulatory requirements of 30CFR 75.1711.

In-mine environmental inspections for the entire Deer Creek Mine were systematically conducted with BLM and DOGM representatives during the course of mine closure activities. On November 29, 2017, a final mine inspection was conducted with the BLM and DOGM representatives in attendance to inspect for hazardous materials and witness the underground conditions prior to the final sealing of the Rilda Canyon portals.

With the final sealing of the Rilda Canyon mine portals completed, the final abandonment and closure of the Deer Creek Mine was concluded including the placement of permanent portal seals for the entire mine complex in accordance with the approved plans. With final abandonment completed, on April 16, 2018 PacifiCorp file Notice-of-Intent to the Division of Oil, Gas and Mining to commence with final reclamation activities of the entire Deer Creek Mine complex per the approved reclamation plan under mine permit C/015/0018.

For informational and historic purposes, all environmental and operational information regarding the operations of the Deer Creek Mine and the Waste Rock Site is being retained with the exception of Appendix XII (Volume 10) and Appendix XIII (Vegetation Information of the WRS). This information has been removed from the MRP and transferred to Rhino Coal.

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Volume 1

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Replace

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| DOGM REGULATION | TITLE | PAGE NO. |
|---|---|---|
| **R645-301-100: General Contents** | | |
| All Legal and Financial Information has been relocated to the Supplemental Volume entitled "Legal and Financial Volume" | | |
| | **PART 2 - ENVIRONMENTAL RESOURCES** | |
| R645-301-411.140 | Archeological Survey | 2-1 |
| | All Archeological Sample Survey Data and Cultural Resource Evaluations of East Mountain has been relocated to the PacifiCorp Confidential and Protected Volume | |
| R645-301-600 | Geology | Volume 8 |
| R645-301-700 | Hydrology (including Climatological Information) | Volume 9 |
| R645-301-321 | Vegetation | 2-135 |
| R645-301-321 | Vegetation Monitoring Plan | 2-174 |
| R645-301-200 | Soils Information | 2-174 |
| R645-301-322 | Fish and Wildlife Resources | 2-182 |
| | All Raptor Survey Data of East Mountain has been relocated to the PacifiCorp Confidential and Protected Volume | |
| R645-301-410 | Land Use Information | 2-211 |
| R645-301-221 | Prime Farm Land Investigation | 2-214 |
| RR645-301-320 | Alluvial Valley Floors | 2-219 |


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| R645-301-527 | Transportation Facilities | 3-40 |
| R645-301-528.321 | Return of Coal Processing Waste to Underground | 3-44 |
| R645-301-524 | Blasting Plan | 3-44 |
| R645-301-420 | Air Pollution Control Plan | 3-45 |
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| R645-301-515 | Reporting and Emergency Procedures | 3-58 |
| R645-301-515.300 | Temporary Cessation of Operations | 3-58 |
| R645-301-536 | Underground Development Waste | 3-63 |
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| Exhibit B | Rilda Canyon Geotechnical Investigation RB&G Report 1991 | |
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| R645-301-242 | Soil Redistribution | 2-1 |
| R645-301-233 | Topsoil Substitutes and Supplements | 2-2 |
| R645-301-243 | Soil Nutrients and Amendments | 2-5 |
| R645-301-244 | Soil Stabilization | 2-5 |
| Appendix 200-A | Soil Sample Analysis – Sampling Program | |
| Appendix 200-B | Soil Sample Location Map | |
| Appendix 200-C | Soil Sample Analysis for the Terrace Area Above Deer Creek Surface Facilities | |


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| R645-301-341 | Revegetation | 3-1 |
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| ***R645-301-400*** | ***Land Use & Air Quality*** | |
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| R645-301-541 | General | 5-1 |
| R645-301-542 | Narratives, Maps and Plans | 5-2 |
| R645-301-550 | Reclamation Design Criteria and Plans | 5-2 |
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| | Rilda Canyon Facilities – Left Fork | |
| | 9th East North Meetinghouse Portals | |
| | 9th East Grimes Wash Portals | |
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| R645-301-763 | Siltation Structures | 7-15 |
| R645-301-764 | Structural Removal | 7-15 |
| R645-301-765 | Permanent Casing and Sealing of Wells | 7-15 |
| Appendix 700-A | Watershed Hydrographs for Deer Creek, Deer and Elk canyons | |
| Appendix 700-B | East Mountain Topographic Map | |
| | Final Reclamation Hydrology Map | |
| | Typical Channel Design Figures | |
| Appendix 700-C | Slope Profile Used in Calculating RUSLE Factors | |
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| Appendix 700-D | Channel Design Results for the Deer Creek Mine Drainages | |
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- a. Drill Hole EM-23C
- b. Drill Hole EM-12C
- c. Drill Hole A-25
- d. Drill Hole B-124

II - Field Data for the Vegetation Reference Area

III - Safety Factor Calculations for Road and Impoundment Embankments

IV - Escarpment Stability Study - Newberry and Rilda Canyon Comparisions
Time Domain Reflectometry Study
Deer Creek Mine Lease Extension Mine Plan and Excarpment Stability Analysis
Sandstone Escarpment Stability in Vicinity of Longwall Mining Operations

V - Photographs of Existing Structures

VI - Blasting Plan

VII - Hydrological Calculations


## Volume 3B
**Appendices**


VIII - Stability Report (Rollins)

IX - Hydrological Procedures and Calculations with Drainage Map CM-10529-EM

X - Subsidence Monitoring Plan

XI - Structures Within the Permit and Adjacent Areas which could be Affected by Subsidence


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Mine Permit Area with Mine Development as August 1977 Blind Canyon Seam
1-4 Surface Yard & Overland Conveyor Disturbed Area Boundary .....CM-10882-DR


### Environmental Resources, Vegetation and Soils

2-1 thru 2-12 have been deleted. Geologic and Hydrologic Data Maps are found in Volume 8 & 9.


2-13 Cross Section of Roans Canyon Fault System (sheet 1 of 2) .....CE-10517-EM
Roans Canyon Fault Crossing Rock Tunnel Layout and Profiles .....CM-10784-DR
2-14 Vegetation Map.....CE-10488-DR
2-15 Mine Plan Area Vegetation Map .....CE-10485-DR
2-15A Rilda Canyon Vegetation Map.....CE-10885-EM
2-16 General Soils Map.....CE-10498-DR
2-17 Mine Plan Area Soils Map.....CE-10344-DR
2-17A Rilda Canyon Access Road/Facilities Soils Map.....CE-10886-DR
2-18A Land Use Map.....CE-10595-DR
2-18B Raptor Nesting Map.....CE-10588-DR
Raptor Nesting Location & Habitat Map of East Mountain has been relocated to the PacifiCorp Confidential and Protected Volume
2-19A Elk Habitat .....CE-10906-DR
2-19B Mule Deer Habitat.....CE-10543-DR


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## Operation Plan


| | |
|---|---|
| 3-1 | Deleted 10/7/95 |
| 3-2 | Deleted 10/7/95 |
| 3-3 | Deleted 10/7/95 |
| 3-4 | Deleted 10/9/90 |
| 3-5 | Deleted 10/9/90 |


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| 3-6 | Life of Mine Plan 5 Year Increments - Blind Canyon Seam | CM-10899-DR |
| 3-7 | Life of Mine Plan 5 Year Increments - Hiawatha Canyon Seam | CM-10900-DR |
| 3-8 | Typical Alternative Sediment Control Measures | GENS1555A |
| 3-9 | Surface Yard Map (Maps 1 – 4) | DS202E |
| 3-9A | Surface Yard Map Pre/Post SMCRA Development Map | DS1812E |
| 3-9A | Rilda Canyon Surface Facilities and Access Road | CE-10883-EM |
| 3-9B | Rilda Canyon Centerline Access Road Profile | CE-10890-EM |
| 3-9C | Deer Creek Mine Sediment Trap | DS1159C |
| 3-10 | Sanitation System/Sewer Lines (R&S) | 7750-C1 |
| 3-11 | Sewer Pipeline Plan View | DS-668-C |
| | Sewer Drainfield | DS1704B |
| 3-12 | Deleted 10/9/90 | |
| 3-13 | Deleted 10/9/90 | |
| 3-14 | Sediment Retention Box | DS1491D |
| 3-15 | Sedimentation Pond | CM-10867-DR |
| | Sedimentation Pond Cross Section | CM-10593-DR |
| 3-16 | Storm Water Diversion System & Impoundment Dam Sections & Details | MK-00-52-1-010 |
| 3-17 | Waste Rock Disposal Site-Yard Extention Area | CM-10386-DR |
| 3-17A | Elk Canyon Storage Pad-Site Plan (Sheet 1 of 2) | CM-10774-DR |
| 3-17B | Elk Canyon Storage Pad-Site Plan (Hydrological Areas) | CM-10774-DR |
| 3-17C | Elk Canyon Storage Pad-Site Plan - Cross Sections (Sheet 2 of 2) | CM-10774-DR |


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## Volume 6

### Operation Plan (cont.)


3-18 Deleted 4/30/04
3-19 Deleted 4/30/04
3-20 Main Access Road (Primary) Cross-Sections.....CM-10881-DR


## Volume 6

### Reclamation


4-1 Deleted 4/30/04
4-1A Rilda Canyon Left Fork Proposed Final Reclamation
Surface & Access Road .....CM-10884-EM
4-2 Deleted 4/30/04
4-3 Deleted 4/30/04
4-4 Deleted 4/30/04
4-4A Rilda Canyon Access Road/Facilities Cross-Sections (2 Sheets).....CM-10891-EM
4-5 Subsidence Monitoring Overlay .....CM-10400-DR
East Mountain 1980 Primary Control Diagram .....CM-10590-DR


## Volume 7

### Operation Plan (additional)


5-1 Layout and Plan View / 8" Underground Pipeline
Huntington Pond to Deer Creek Mine ..... CM-10673-DR
5-2 8" Outside Service Water (Sheets 1-4) ..... CM-10671
8" Outside Service Water (Sheets 5-8) ..... CM-10671
8" Outside Service Water (Sheets 9-11) ..... CM-10671

**Volume 8** **Geologic Section** **(refer to individual volume for Table of Contents)**
**Volume 9** **Hydrologic Section** **(refer to individual volume for Table of Contents)**
**Volume 11** **North Rilda Canyon** **(refer to individual volume for Table of Contents)**
**Volume 12** **Mill Fork** **(refer to individual volume for Table of Contents)**


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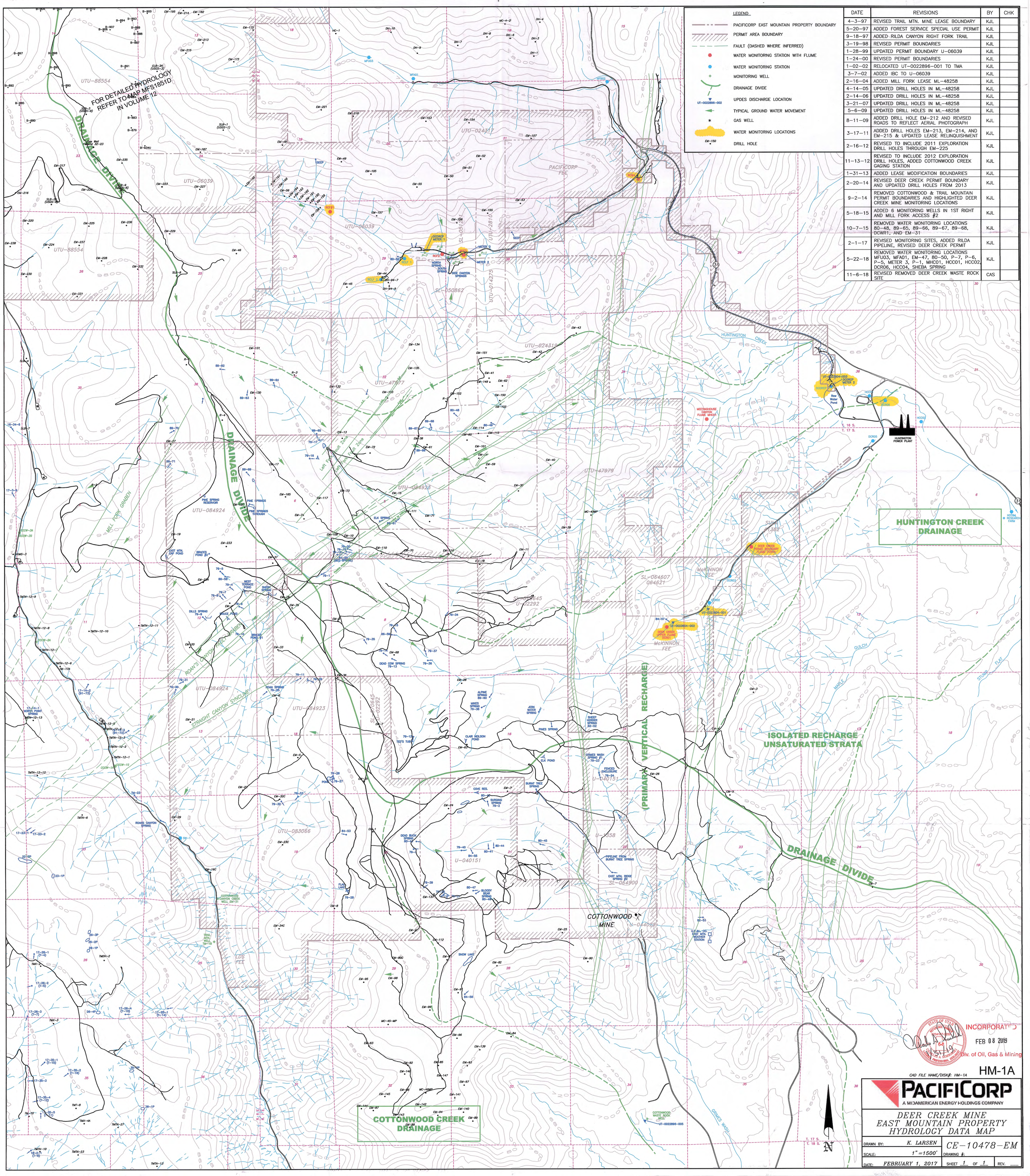
Volume 1, Part 2

Replace

Map HM-1A




LEGEND

- PACIFICORP EAST MOUNTAIN PROPERTY BOUNDARY
- PERMIT AREA BOUNDARY
- FAULT (DASHED WHERE INFERRED)
- WATER MONITORING STATION WITH FLUME
- WATER MONITORING STATION
- MONITORING WELL
- DRAINAGE DIVIDE
- UT-0022896-002 UPDES DISCHARGE LOCATION
- TYPICAL GROUND WATER MOVEMENT
- GAS WELL
- WATER MONITORING LOCATIONS
- EM-150 DRILL HOLE

| DATE | REVISIONS | BY | CHK |
|---|---|---|---|
| 4-3-97 | REVISED TRAIL MTN. MINE LEASE BOUNDARY | KJL | |
| 5-20-97 | ADDED FOREST SERVICE SPECIAL USE PERMIT | KJL | |
| 9-18-97 | ADDED RILDA CANYON RIGHT FORK TRAIL | KJL | |
| 3-19-98 | REVISED PERMIT BOUNDARIES | KJL | |
| 1-28-99 | UPDATED PERMIT BOUNDARY U-06039 | KJL | |
| 1-24-00 | REVISED PERMIT BOUNDARIES | KJL | |
| 1-02-02 | RELOCATED UT-0022896-001 TO TMA | KJL | |
| 3-7-02 | ADDED IBC TO U-06039 | KJL | |
| 2-16-04 | ADDED MILL FORK LEASE ML-48258 | KJL | |
| 4-14-05 | UPDATED DRILL HOLES IN ML-48258 | KJL | |
| 2-14-06 | UPDATED DRILL HOLES IN ML-48258 | KJL | |
| 3-21-07 | UPDATED DRILL HOLES IN ML-48258 | KJL | |
| 5-6-09 | UPDATED DRILL HOLES IN ML-48258 | KJL | |
| 8-11-09 | ADDED DRILL HOLE EM-212 AND REVISED ROADS TO REFLECT AERIAL PHOTOGRAPH | KJL | |
| 3-17-11 | ADDED DRILL HOLES EM-213, EM-214, AND EM-215 & UPDATED LEASE RELINQUISHMENT | KJL | |
| 2-16-12 | REVISED TO INCLUDE 2011 EXPLORATION DRILL HOLES THROUGH EM-225 | KJL | |
| 11-13-12 | REVISED TO INCLUDE 2012 EXPLORATION DRILL HOLES, ADDED COTTONWOOD CREEK GAGING STATION | KJL | |
| 1-31-13 | ADDED LEASE MODIFICATION BOUNDARIES | KJL | |
| 2-20-14 | REVISED DEER CREEK PERMIT BOUNDARY AND UPDATED DRILL HOLES FROM 2013 | KJL | |
| 9-2-14 | REMOVED COTTONWOOD & TRAIL MOUNTAIN PERMIT BOUNDARIES AND HIGHLIGHTED DEER CREEK MINE MONITORING LOCATIONS | KJL | |
| 5-18-15 | ADDED 6 MONITORING WELLS IN 1ST RIGHT AND MILL FORK ACCESS #2 | KJL | |
| 10-7-15 | REMOVED WATER MONITORING LOCATIONS 80-48, 89-65, 89-66, 89-67, 89-68, DCWR1, AND EM-31 | KJL | |
| 2-1-17 | REVISED MONITORING SITES, ADDED RILDA PIPELINE, REVISED DEER CREEK PERMIT | KJL | |
| 5-22-18 | REMOVED WATER MONITORING LOCATIONS MFU03, MFA01, EM-47, 80-50, P-7, P-6, P-5, METER 3, P-1, MHC01, HCC01, HCC02, DCR06, HCC04, SHEBA SPRING | KJL | |
| 11-6-18 | REVISED REMOVED DEER CREEK WASTE ROCK SITE | CAS | |

STATE OF UTAH
REGISTERED
RICHARD A. SERBUTT
PROFESSIONAL ENGINEER

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HM-1A

CAD FILE NAME/DISK#: HM-1A

PACIFICORP
A MIDAMERICAN ENERGY HOLDINGS COMPANY

DEER CREEK MINE
EAST MOUNTAIN PROPERTY
HYDROLOGY DATA MAP

| | | |
|---|---|---|
| DRAWN BY: K. LARSEN | | CE-10478-EM |
| SCALE: 1"=1500' | | DRAWING #: |
| DATE: FEBRUARY 1, 2017 | SHEET 1 OF 1 | REV. |

Volume 2

R645-301-800 Bonding

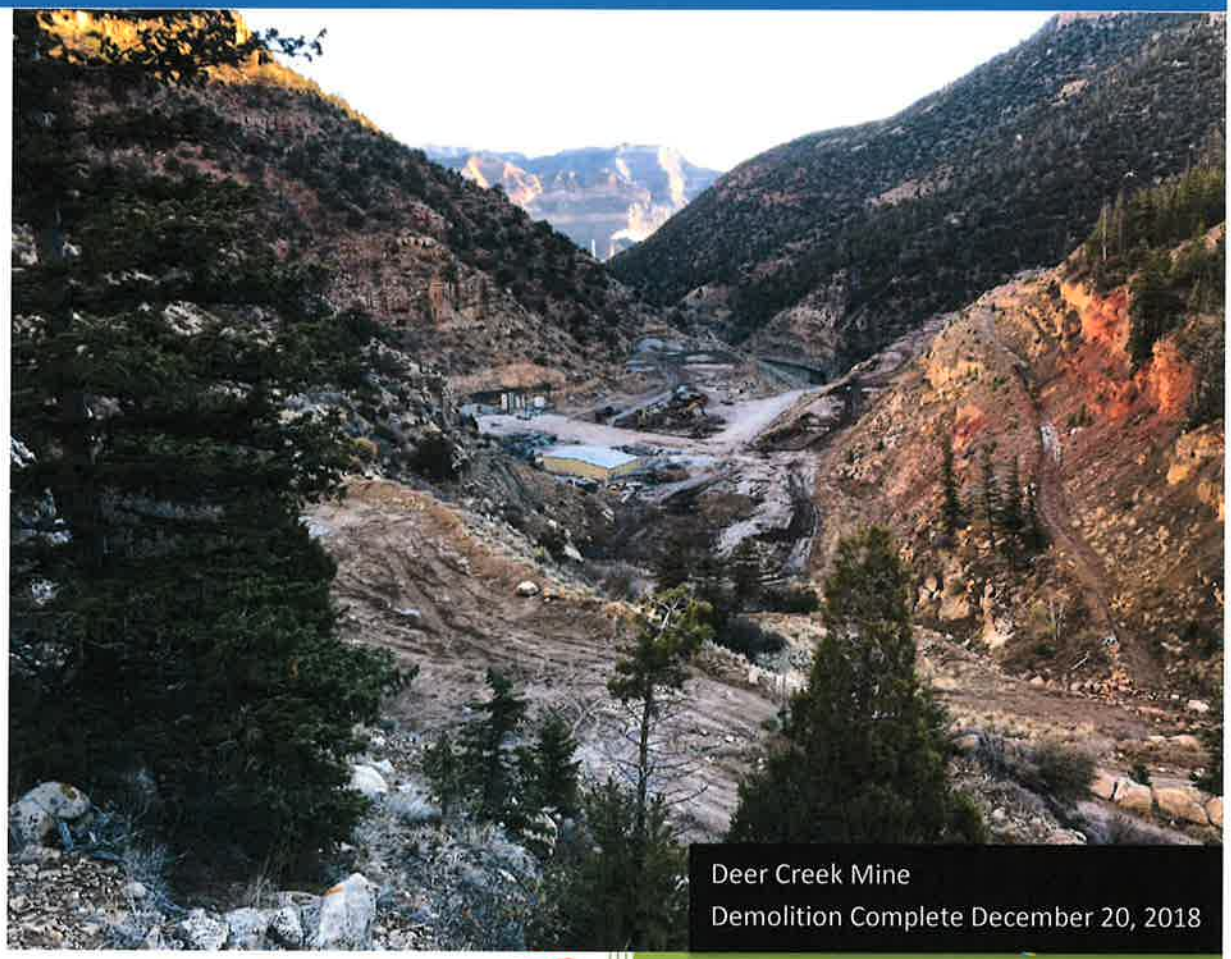
Replace

Deer Creek Mine Reclamation Bond Estimates

# 2019

**Revised January 2019**

# Deer Creek Mine: Reclamation Cost Estimates



Deer Creek Mine
Demolition Complete December 20, 2018

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PacifiCorp – Interwest Mining Company
02/01/2019

# Deer Creek Mine

## Deer Creek Mine Complex: C/015/0018

Reclamation Bond Estimates

Bond Summary

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**Bonding Calculations**
**Deer Creek Mine - including Rilda Canyon Portal Facilities**

| Deer Creek Mine Facilities | | |
|---|---|---|
| Direct Costs (2003 Costs) | | |
| Subtotal Demolition, | $779,235 | |
| Subtotal Backfilling and Grading | $823,312 | |
| Subtotal Revegetation | $72,966 | |
| Direct Costs Total | $1,675,513 | |
| | | |
| Indirect Costs | | |
| Mob/Demob | $167,551 | 10.0% |
| Contingency | $83,776 | 5.0% |
| Engineering Redesign | $41,888 | 2.5% |
| Main Office Expense | $113,935 | 6.8% |
| Project Mainagement Fee | $41,888 | 2.5% |
| Indirect Costs Totals | $449,038 | 26.8% |
| | | |
| **Total Cost in 2003 Dollars** | **$2,124,551** | |
| | | |
| **Escalation (refer to Deer Creek Escalation Sheet for Escalation Factors)** | | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2004 Dollars** | $2,184,463 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2005 Dollars** | $2,246,065 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2006 Dollars** | $2,268,975 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2007 Dollars** | $2,292,118 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2008 Dollars** | $2,315,498 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2009 Dollars** | $2,345,599 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2010 Dollars** | $2,376,092 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2011 Dollars** | $2,406,981 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2012 Dollars** | $2,447,900 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2013 Dollars** | $2,489,514 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2014 Dollars** | $2,531,836 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2015 Dollars** | $2,574,877 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2016 Dollars** | $2,618,650 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2017 Dollars** | $2,636,980 | |
| **Deer Creek Mine Facilities Total Reclamation Cost 2018 Dollars** | $2,655,439 | |
| **Total Cost in 2018 Dollars** | **$2,655,439** | |
| **Deer Creek Mine - Rilda Portal Facilities** | | |
| Direct Costs Total | | |
| Subtotal Demolition, | $357,280 | |
| Subtotal Earthwork | $91,473 | |
| Subtotal Revegetation | $9,687 | |
| Direct Costs Total | $458,440 | |
| | | |
| Indirect Costs | | |
| Mob/Demob | $45,844.04 | 10.0% |
| Contingency | $22,922.02 | 5.0% |
| Engineering Redesign | $11,461.01 | 2.5% |
| Main Office Expense | $31,173.94 | 6.8% |
| Project Mainagement Fee | $11,461.01 | 2.5% |
| Indirect Costs Totals | $122,862.01 | 26.8% |
| | | |
| **Rilda Canyon Portal Facilities Total Cost in 2011 Dollars** | **$581,302.37** | |
| | | |
| **Escalation (refer to Rilda Canyon Escalation Sheet for Escalation Factors)** | | |
| **Rilda Canyon Portal Facilities Total Cost in 2012 Dollars** | $591,185 | |
| **Rilda Canyon Portal Facilities Total Cost in 2013 Dollars** | $601,067 | |
| **Rilda Canyon Portal Facilities Total Cost in 2014 Dollars** | $610,949 | |
| **Rilda Canyon Portal Facilities Total Cost in 2015 Dollars** | $620,831 | |
| **Rilda Canyon Portal Facilities Total Cost in 2016 Dollars** | $630,713 | |
| **Rilda Canyon Portal Facilities Total Cost in 2017 Dollars** | $634,782 | |
| **Rilda Canyon Portal Facilities Total Cost in 2018 Dollars** | $639,226 | |
| **Total Cost in 2018 Dollars** | **$639,226** | |
| | | |
| **Deer Creek Mine Complex -Total Reclamation Bond** | | |
| | | |
| **Total Deer Creek Mine Complex Reclamation Costs in 2018 Dollars** | **$3,294,665** | |
| **Bond Amount (rounded to nearest $1,000)** | **$3,374,000** | |

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# Deer Creek Mine

## Deer Creek Mine Portal Facilities: C/015/0018

Reclamation Bond Estimates

Escalation Calcualtions

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# DEER CREEK MINE

**Revised December 2018**

| Direct Costs (2003 Costs) | | |
|---|---|---|
| Subtotal Demolition, | $ | 779,235 |
| Subtotal Backfilling and Grading | $ | 823,312 |
| Subtotal Revegetation | $ | 72,966 |
| **Direct Cost** | $ | 1,675,513 |

| | | | | | |
|---|---|---|---|---|---|
| **Indirect Cost +26.8%** | 26.8% | $ | 449,037 | | |
| **Total Cost in 2003 dollars** | | $ | 2,124,550 | | |
| **Escalate 2.82% for 2 years to 2005** | | $ | 2,184,463 | $59,912.32 | 2004 |
| | | $ | 2,246,065 | $61,601.85 | 2005 |
| **Escalate 1.02% for 3 years to 2008** | | $ | 2,268,975 | $22,909.86 | 2006 |
| | | $ | 2,292,118 | $23,143.54 | 2007 |
| | | $ | 2,315,498 | $23,379.60 | 2008 |
| **Escalate 1.30% for 3 years to 2011** | | $ | 2,345,599 | $30,101.47 | 2009 |
| | | $ | 2,376,092 | $30,492.79 | 2010 |
| | | $ | 2,406,981 | $30,889.19 | 2011 |
| **Escalate 1.70% for 5 years to 2016** | | $ | 2,447,900 | $40,918.68 | 2012 |
| | | $ | 2,489,514 | $41,614.30 | 2013 |
| | | $ | 2,531,836 | $42,321.74 | 2014 |
| | | $ | 2,574,877 | $43,041.21 | 2015 |
| | | $ | 2,618,650 | $43,772.91 | 2016 |
| **Escalate 0.70% for 2 years to 2018** | | $ | 2,636,980 | $18,330.55 | 2017 |
| | | | **$2,655,439.36** | **$18,458.86** | **2018** |

**Yearly Escalation Factors Provided by DOGM**

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# Deer Creek Mine

## Rilda Canyon Portal Facilities: C/015/0018

Reclamation Bond Estimates

Escalation Calcualtions

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# Rilda Canyon

**Revised December 2018**

| Direct Costs (2003 Costs) | | |
|---|---|---|
| Subtotal Demolition, | $ | 357,280.00 |
| Subtotal Backfilling and Grading | $ | 91,473.16 |
| Subtotal Revegetation | $ | 9,687.19 |
| **Direct Cost** | $ | 458,440.35 |

| | | | | | |
|---|---|---|---|---|---|
| **Indirect Cost +26.8%** | 26.8% | $ | 122,862.01 | | |
| **Total Cost in 2011 dollars** | | $ | 581,302.36 | | |
| **Escalate 1.70% for 5 years to 2016** | | $ | 591,185 | $9,882.14 | 2012 |
| | | $ | 601,067 | $9,882.14 | 2013 |
| | | $ | 610,949 | $9,882.14 | 2014 |
| | | $ | 620,831 | $9,882.14 | 2015 |
| | | $ | 630,713 | $9,882.14 | 2016 |
| **Escalate 0.70% for 2 years to 2018** | | $ | 634,782 | $4,069.12 | 2017 |
| | | | **$639,225.66** | **$4,443.48** | **2018** |

**Yearly Escalation Factors Provided by DOGM**

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# Deer Creek Mine

## Deer Creek Mine Portal Facilities: C/015/0018

Reclamation Bond Estimates

Demolition

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fuel Tank Fan 1A | | | | | | | | | | | | | | | | | | | 657 |
| | Redwood Water Tank 1B | | | | | | | | | | | | | | | | | | | 1301 |
| | Fan 1C | | | | | | | | | | | | | | | | | | | 4150 |
| | Water Storage Tank 1D | | | | | | | | | | | | | | | | | | | 11612 |
| | Main Office Bathhouse 1E | | | | | | | | | | | | | | | | | | | 72970 |
| | Water Treatment Plant 1F | | | | | | | | | | | | | | | | | | | 3656 |
| | Skimmer Building 1G | | | | | | | | | | | | | | | | | | | 3656 |
| | High Pressure Pump Building 1H | | | | | | | | | | | | | | | | | | | 2768 |
| | Power Installations 1I | | | | | | | | | | | | | | | | | | | 3287 |
| | ROM Belt Line 1 J | | | | | | | | | | | | | | | | | | | 22755 |
| | Parking Garage 1K | | | | | | | | | | | | | | | | | | | 11377 |
| | Storage Shed 1L | | | | | | | | | | | | | | | | | | | 11993 |
| | Security GateFence 1Q | | | | | | | | | | | | | | | | | | | 2002 |
| | Shop Warehouse 1M | | | | | | | | | | | | | | | | | | | 22025 |
| | Salt and Storage Shed 1N | | | | | | | | | | | | | | | | | | | 4451 |
| | Oil Fuel Storage 1O | | | | | | | | | | | | | | | | | | | 3196 |
| | Tire Dock 1P | | | | | | | | | | | | | | | | | | | 14898 |
| | Septic Tanks 1R | | | | | | | | | | | | | | | | | | | 4034 |
| | Storage Docks 1S | | | | | | | | | | | | | | | | | | | 26450 |
| | Rock Dust Silo 1T | | | | | | | | | | | | | | | | | | | 5702 |
| | Reclaim Tunnel 1U | | | | | | | | | | | | | | | | | | | 1885 |
| | Retaining Walls Tipple 1V | | | | | | | | | | | | | | | | | | | 6369 |
| | Tipple 1W | | | | | | | | | | | | | | | | | | | 62591 |
| | Beltline C1 C2 1X | | | | | | | | | | | | | | | | | | | 11962 |
| | Transfer Tower C1 C2 1Y | | | | | | | | | | | | | | | | | | | 4136 |
| | Misc Culverts 1 Z | | | | | | | | | | | | | | | | | | | 18748 |
| | Misc Concrete 1AA | | | | | | | | | | | | | | | | | | | 109110 |
| | Guard Rail 1AB | | | | | | | | | | | | | | | | | | | 3742 |
| | SedPond 1AC | | | | | | | | | | | | | | | | | | | 9191 |
| | Trash Bunker 1AD | | | | | | | | | | | | | | | | | | | 4143 |
| | Portals 2 A | | | | | | | | | | | | | | | | | | | 20800 |
| | Asphalt Removal 3 A | | | | | | | | | | | | | | | | | | | 121618 |
| | Riprap 4A | | | | | | | | | | | | | | | | | | | 172000 |
| | Total | | | | | | | | | | | | | | | | | | | 779235 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fuel Tank Fan 1A | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 0.25 | 1 | day | | 0.25 | day | 159 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 0.25 | 1 | day | | 0.25 | day | 28 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 2 | 1 | hr | | 2 | hr | 99 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 2 | 1 | hr | | 2 | hr | 77 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 2 | 1 | hr | | 2 | hr | 107 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.25 | 1 | day | | 0.25 | day | 102 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 2 | 1 | hr | | 2 | hr | 78 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 1 | | | | ton | | 1 | ton | 7 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 657 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 657 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Redwood Water Tank 1B | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 317 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 36 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 154 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 215 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 204 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 157 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 3 | | | | ton | | 3 | ton | 21 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 1301 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 1301 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fan 1C | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 2 | day | | 2 | day | 1269 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 113 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 72 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 2 | hr | | 16 | hr | 790 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 2 | hr | | 16 | hr | 616 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 20 | | | | ton | | 20 | ton | 140 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 4150 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 4150 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Water Storage Tank 1D | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 317 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 36 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | Crane Mounted 25 ton | 01590 600 2500 | 583.41 | /day | | | | | | | | | 4.5 | 1 | day | | 4.5 | day | 2625 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 36 | 1 | hr | | 36 | hr | 1777 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 24 | 2 | hr | | 48 | hr | 1848 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 36 | 1 | hr | | 36 | hr | 1931 |
| | | Torch Equipment | 01590 400 6350 | 2.78 | /HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 67 |
| | | Torch Operating | 01590 400 6360 | 4.95 | /HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 119 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 924 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 150 | | | | ton | | 150 | ton | 1050 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 11612 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 11612 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Main Office Bathhouse 1E | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | 300 H. P. (D8) | 01590 200 4310 | 985.16 | /day | | | | | | | | | 15.5 | 1 | day | | 15.5 | day | 15270 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 124 | 1 | hr | | 124 | hr | 6119 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 15.5 | 1 | day | | 15.5 | day | 9837 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 15.5 | 1 | day | | 15.5 | day | 1754 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 124 | 1 | hr | | 124 | hr | 6119 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 6 | 1 | day | | 6 | day | 6543 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 48 | 1 | hr | | 48 | hr | 2369 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 6 | 1 | day | | 6 | day | 6123 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 48 | 1 | hr | | 48 | hr | 1879 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 124 | 2 | hr | | 248 | hr | 9548 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 124 | 1 | hr | | 124 | hr | 6653 |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 72970 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 72970 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Water Treatment Plant 1F | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 635 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 113 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | 300 H. P. (D8) | 01590 200 4310 | 985.16 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 985 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 308 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 204 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 157 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 3656 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 3656 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Skimmer Building 1G | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 635 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 113 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | 300 H. P. (D8) | 01590 200 4310 | 985.16 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 985 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 308 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 204 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 157 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 3656 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 3656 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | High Pressure Pump Building 1H | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | 300 H. P. (D8) | 01590 200 4310 | 985.16 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 493 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 317 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 57 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4610 | 1090.52 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 545 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 154 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 215 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 204 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 157 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 2768 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 2768 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Power Installations 1I | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1091 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 2 | hr | | 16 | hr | 616 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 3287 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 3287 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ROM Belt Line 1 J | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Crane Mounted 55 ton | 01590 600 2600 | 999.76 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 2999 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1184 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 6 | 1 | day | | 6 | day | 3808 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 48 | 1 | hr | | 48 | hr | 2369 |
| | | Crane Mounted 25 ton | 01590 600 2500 | 583.41 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 1750 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1184 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 24 | 2 | hr | | 48 | hr | 1848 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 48 | 1 | hr | | 48 | hr | 2575 |
| | | Torch Equipment | 01590 400 6350 | 2.78 | /HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 67 |
| | | Torch Operating | 01590 400 6360 | 4.95 | /HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 119 |
| | | | | | | | | | | | | | | | | | | | | |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 6 | 1 | day | | 6 | day | 2448 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 48 | 1 | hr | | 48 | hr | 1879 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 75 | | | | ton | | 75 | ton | 525 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 22755 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 22755 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Parking Garage 1K | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 635 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 113 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 5 | 1 | day | | 5 | day | 3173 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 5 | 1 | day | | 5 | day | 361 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 40 | 1 | hr | | 40 | hr | 1974 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1091 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1021 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 2 | hr | | 16 | hr | 616 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 20 | | | | ton | | 20 | ton | 140 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 11377 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 11377 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Storage Shed 1L | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 635 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 113 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 5 | 1 | day | | 5 | day | 3173 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 5 | 1 | day | | 5 | day | 361 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 40 | 1 | hr | | 40 | hr | 1974 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1091 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1021 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 4 | hr | | 32 | hr | 1232 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 20 | | | | ton | | 20 | ton | 140 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 11993 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 11993 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Shop Warehouse 1M | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 7 | 1 | day | | 7 | day | 4442 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 7 | 1 | day | | 7 | day | 792 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 56 | 1 | hr | | 56 | hr | 2764 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 1904 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 216 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1184 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1091 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1021 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 24 | 4 | hr | | 96 | hr | 3696 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1288 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 314 | | | | ton | | 314 | ton | 2198 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 22025 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 22025 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Salt and Storage Shed 1N | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 2 | 1 | day | | 2 | day | 1269 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 2 | 1 | day | | 2 | day | 144 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 790 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 616 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 858 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 204 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 157 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 59 | | | | ton | | 59 | ton | 413 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 4451 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 4451 |

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| 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 Fuel Storage 1O | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 317 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 36 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | Crane Mounted 25 ton | 01590 600 2500 | 583.41 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 583 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 308 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 30 | | | | ton | | 30 | ton | 210 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 3196 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 3196 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tire Dock 1P | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 1904 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 216 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1184 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 3272 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1184 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 3062 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 940 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 24 | 2 | hr | | 48 | hr | 1848 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1288 |
| | 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 | | | | | | | | | | | | | | | | | | | 14898 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 14898 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Security GateFence 1Q | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 545 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 2 | hr | | 16 | hr | 616 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.25 | 1 | day | | 0.25 | day | 102 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 2 | 1 | hr | | 2 | hr | 78 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 2002 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 2002 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Septic Tanks 1R | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 635 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2660 | 72.15 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 72 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1021 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 308 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 20 | | | | ton | | 20 | ton | 140 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 4034 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 4034 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Storage Docks 1S | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 5.5 | 1 | day | | 5.5 | day | 3490 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 113 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 4.5 | 1 | day | | 4.5 | day | 325 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 44 | 1 | hr | | 44 | hr | 2171 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 5.5 | 1 | day | | 5.5 | day | 5998 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 44 | 1 | hr | | 44 | hr | 2171 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 5.5 | 1 | day | | 5.5 | day | 5613 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 44 | 1 | hr | | 44 | hr | 1723 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 44 | 1 | hr | | 44 | hr | 1694 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 44 | 1 | hr | | 44 | hr | 2361 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 10 | | | | ton | | 10 | ton | 70 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 26450 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 26450 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rock Dust Silo 1T | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Crane Mounted 55 ton | 01590 600 2600 | 999.76 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1000 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 635 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 72 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1021 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 2 | hr | | 16 | hr | 616 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Neilson Construction | Neilson Con. | 7 | /TON | | | | | | | 15 | | | | ton | | 15 | ton | 105 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 5702 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 5702 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Reclaim Tunnel 1U | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 317 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 57 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 197 |
| | | | | | | | | | | | | | | | | | | | | |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 4 | 2 | hr | | 8 | hr | 308 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 215 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.5 | 2 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 4 | 2 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Nielson Con. | 7 | /TON | | | | | | | 10 | | | | ton | | 10 | ton | 70 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 1885 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 1885 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Retaining Walls Tipple 1V | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1.5 | 1 | day | | 1.5 | day | 952 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 1.5 | 1 | day | | 1.5 | day | 108 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 12 | 1 | hr | | 12 | hr | 592 |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1091 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1021 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 12 | 1 | hr | | 12 | hr | 462 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 12 | 1 | hr | | 12 | hr | 644 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 10 | | | | ton | | 10 | ton | 70 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 6369 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 6369 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tipple 1W | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Crane Mounted 55 ton | 01590 600 2600 | 999.76 | /day | | | | | | | | | 10 | 1 | day | | 10 | day | 9998 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 80 | 1 | hr | | 80 | hr | 3948 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 10 | 1 | day | | 10 | day | 6346 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 10 | 1 | day | | 10 | day | 1132 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 80 | 1 | hr | | 80 | hr | 3948 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 10 | 1 | day | | 10 | day | 6346 |
| | | Attachment Grapples | 01590 200 0345 | 100.05 | /day | | | | | | | | | 10 | 1 | day | | 10 | day | 1001 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 80 | 1 | hr | | 80 | hr | 3948 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 80 | 4 | hr | | 320 | hr | 12320 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 80 | 1 | hr | | 80 | hr | 4292 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 10 | 1 | day | | 10 | day | 4080 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 80 | 1 | hr | | 80 | hr | 3132 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 300 | | | | ton | | 300 | ton | 2100 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 62591 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 62591 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Beltline C1 C2 1X | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 3.5 | 1 | day | | 3.5 | day | 2221 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 3.5 | 1 | day | | 3.5 | day | 396 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 28 | 1 | hr | | 28 | hr | 1382 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 28 | 4 | hr | | 112 | hr | 4312 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 28 | 1 | hr | | 28 | hr | 1502 |
| | | Torch Equipment | 01590 400 6350 | 2.78 | /HR | | | | | | | | | 28 | 1 | hr | | 28 | hr | 78 |
| | | Torch Operating | 01590 400 6360 | 4.95 | /HR | | | | | | | | | 28 | 1 | hr | | 28 | hr | 139 |
| | | | | | | | | | | | | | | | | | | | | |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 2 | 1 | day | | 2 | day | 816 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 626 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 70 | | | | ton | | 70 | ton | 490 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 11962 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 11962 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Transfer Tower C1 C2 1Y | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Crane Mounted 55 ton | 01590 600 2600 | 999.76 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1000 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 635 |
| | | Attachment Bucket Thumb | 01590 200 0342 | 113.18 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 113 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 4 | 2 | hr | | 8 | hr | 308 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 20 | | | | ton | | 20 | ton | 140 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 4136 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 4136 |

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| 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 Culverts 1 Z | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 7 | 1 | day | | 7 | day | 4442 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 7 | 1 | day | | 7 | day | 505 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 54 | 1 | hr | | 54 | hr | 2665 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 54 | 2 | hr | | 108 | hr | 4158 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 54 | 1 | hr | | 54 | hr | 2897 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 2 | 1 | day | | 2 | day | 816 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 626 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 377 | | | | ton | | 377 | ton | 2639 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 18748 |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 18748 |

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| 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 Concrete 1AA | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 40 | 1 | day | | 40 | day | 25385 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 40 | 1 | day | | 40 | day | 2886 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 320 | 1 | hr | | 320 | hr | 15792 |
| | | | | | | | | | | | | | | | | | | | | |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 5 | 1 | day | | 5 | day | 5453 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 40 | 1 | hr | | 40 | hr | 1974 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 320 | 2 | hr | | 640 | hr | 24640 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 320 | 1 | hr | | 320 | hr | 17168 |
| | | Torch Equipment | 01590 400 6350 | 2.78 | /HR | | | | | | | | | 320 | 1 | hr | | 320 | hr | 890 |
| | | Torch Operating | 01590 400 6360 | 4.95 | /HR | | | | | | | | | 320 | 1 | hr | | 320 | hr | 1584 |
| | | | | | | | | | | | | | | | | | | | | |
| | | Off highway 50 ton | 01590 200 5610 | 1020.56 | /day | | | | | | | | | 5 | 2 | day | | 10 | day | 10206 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 40 | 2 | hr | | 80 | hr | 3132 |
| | 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 | | | | | | | | | | | | | | | | | | | 109110 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 109110 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Guard Rail 1AB | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | Deer Creek Mine | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | Excavator 2 1/2 CY | 01590 200 0320 | 1237.56 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 1238 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 395 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 8 | 3 | hr | | 24 | hr | 924 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 429 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Steel Truck Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Total | | | | | | | | | | | | | | | | | | | 3742 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SedPond 1AC | | | | | | | | | | 138 | | | | | | | | cy | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 2 1/2 CY | 01590 200 0320 | 1237.56 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 3713 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1184 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 3 | 1 | day | | 3 | day | 216 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 24 | 2 | hr | | 48 | hr | 1848 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 1288 |
| | | Torch Equipment | 01590 400 6350 | 2.78 | /HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 67 |
| | | Torch Operating | 01590 400 6360 | 4.95 | /HR | | | | | | | | | 24 | 1 | hr | | 24 | hr | 119 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 1 | 1 | day | | 1 | day | 408 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 8 | 1 | hr | | 8 | hr | 313 |
| | Disposal Cost Non Steel | Nielson Construction | Neilson Con. | 7 | /TON | | | | | | | 5 | | | | ton | | 5 | ton | 35 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 9191 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 9191 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Trash Bunker 1AD | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | | | | | | | | | | | | | | | | | | | |
| | | Excavator 1.5 CY | 01590 200 0200 | 634.63 | /day | | | | | | | | | 2 | 1 | day | | 2 | day | 1269 |
| | | Hammer Hydraulic 500 to 1,200 ft-lb | 01590 400 2860 | 72.15 | /day | | | | | | | | | 2 | 1 | day | | 2 | day | 144 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 790 |
| | | CLAB | Clab | $38.50 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 616 |
| | | Foreman Average, Outside | Foreman | $53.65 | HR | | | | | | | | | 16 | 1 | hr | | 16 | hr | 858 |
| | Structure's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Rubble's Weight (exclude steel) | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Non Steel Truck | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 0.5 | 1 | day | | 0.5 | day | 204 |
| | Transportation Cost Non Steel Drive | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 4 | 1 | hr | | 4 | hr | 157 |
| | Disposal Cost Non Steel | Neilson Construction | Neilson Con. | 7 | /TON | | | | | | | 15 | | | | ton | | 15 | ton | 105 |
| | Steel's Weight | | | | | | | | | | | | | | | | | | | |
| | Truck's Capacity | | | | | | | | | | | | | | | | | | | |
| | Haulage | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck | | | | | | | | | | | | | | | | | | | |
| | Transportation Cost Steel Truck Drive | | | | | | | | | | | | | | | | | | | |
| | Disposal Cost Steel | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | 4143 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 4143 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Portals 2 A | | | | | | | | | | | | | | | | | | | |
| | Structure's Demolition Cost | Seal Portals | AML1 | 5200 | EA. | | | | | | | | | | 4 | EA | | 4 | EA | 20800 |
| | 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 | | | | | | | | | | | | | | | | | | | 20800 |
| | | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | 3 Man Crew | | | | | | | | | | | | | | | | | | | |
| | Forman | | | | | | | | | | | | | | | | | | | |
| | Crane Operator | | | | | | | | | | | | | | | | | | | |
| | Truck Driver | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 20800 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Asphalt Removal 3 A | | | | | | | | | | | | | | | | | | | |
| | Service Road | | | | | | | | | | | | | | | | | | | |
| | | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 9.4 | 1 | day | | 9.4 | day | 10251 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 75.2 | 1 | hr | | 75.2 | hr | 3711 |
| | | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 9.4 | 4 | day | | 37.6 | day | 15341 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 75.2 | 4 | hr | | 300.8 | hr | 11776 |
| | | 300 H. P. (D8) | 01590 200 4310 | 985.16 | /day | | | | | | | | | 15.5 | 1 | day | | 15.5 | day | 15270 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 124 | 1 | hr | | 124 | hr | 6119 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 62468 |
| | Asphalt Removal | | | | | | | | | | | | | | | | | | | |
| | Upper Parking Lot and Yard | Tractor Loader 7 to 8 CY | 01590 200 4810 | 1090.52 | /day | | | | | | | | | 10.3 | 1 | day | | 10.3 | day | 11232 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 82.1 | 1 | hr | | 82.1 | hr | 4052 |
| | | Truck dump 16 ton payload | 01590 200 5300 | 408.01 | /day | | | | | | | | | 10.3 | 4 | day | | 41.2 | day | 16810 |
| | | Truck Driver, Heavy | Trhv | $39.15 | HR | | | | | | | | | 82.1 | 4 | hr | | 328.4 | hr | 12857 |
| | | 300 H. P. (D8) | 01590 200 4310 | 985.16 | /day | | | | | | | | | 10.3 | 1 | day | | 10.3 | day | 10147 |
| | | Eq. Op., Medium Equipment (Eqmd) | Eqmd | $49.35 | HR | | | | | | | | | 82.1 | 1 | hr | | 82.1 | hr | 4052 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 59150 |
| | 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 | | | | | | | | | | | | | | | | | | | 121618 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Riprap 4A | | | | | | | | | | | | | | | | | | | |
| | Deer Creek Canyon | Riprap | USFS001 | 32 | /CY | | | | | | 3869 | | | | | CY | | 3869 | CY | 123808 |
| | Deer Canyon | Riprap | USFS001 | 32 | /CY | | | | | | 376 | | | | | CY | | 376 | CY | 12032 |
| | Elk Canyon | Riprap | USFS001 | 32 | /CY | | | | | | 1130 | | | | | CY | | 1130 | CY | 36160 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 172000 |
| | Equipment 's Disposal Cost | | | | | | | | | | | | | | | | | | | |
| | Dismantling Cost | | | | | | | | | | | | | | | | | | | |
| | Equipment 's Vol. Demolished | | | | | | | | | | | | | | | | | | | |
| | Loading Costs | | | | | | | | | | | | | | | | | | | |
| | Transport Costs | | | | | | | | | | | | | | | | | | | |
| | Disposal Costs | | | | | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | | | | | | | | |
| | 2 Man Crew | | | | | | | | | | | | | | | | | | | |
| | Crane Operator | | | | | | | | | | | | | | | | | | | |
| | Truck Driver | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | 172000 |

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# Deer Creek Mine

## Deer Creek Mine Portal Facilities: C/015/0018

Reclamation Bond Estimates

Earthwork

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| | Equipment Cost | Hourly Operating Costs | Equipment Overhead | Operator's Hourly Wage Rate | Hourly Cost | Number of Men or Eq. | Total Eq. & Lab. Costs | Units | Quantity | Units | Production Rate | Units | Equip. + Labor Time/Dis. | Units | Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Earthwork Summary Deer Creek Mine | | | | | | | | | | | | | | | |
| Earthwork Summary Deer Creek Mine | | | | | | | | | | | | | | | 810852 |
| Pocking | | | | | | | | | | | | | | | 12460 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | 823312 |

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| | Equipment Cost | Hourly Operating Costs | Equipment Overhead | Operator's Hourly Wage Rate | Hourly Cost | Number of Men or Eq. | Total Eq. & Lab. Costs | Units | Quantity | Units | Production Rate | Units | Equip. + Labor Time/Dis. | Units | Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Earthwork Summary Deer Creek Mine | | | | | | | | | | | | | | | |
| Dozer | | | | | | | | | | | | | | | |
| D8R Semi-U EROPS (9-43) (3Q02) | 17060 | 64.8 | 0.1 | 49.35 | 227.26 | 1 | 227.26 | $/HR | 228693 | LCY | 158 | LCY/HR | 1447.4 | HR | 328936 |
| | | | | | | | | | | | | | | | |
| Scrapper Work | | | | | | | | | | | | | | | |
| Scrapper | | | | | | | | | | | | | | | |
| 631E SERIES II EROPS 2001 (9-40) (3Q02) | 18615 | 82.4 | 0.1 | 49.35 | 256.33 | 3 | 768.99 | $/HR | | | | | 27.1 | HR | 20840 |
| Dozer to load scrapper | | | | | | | | | | | | | | | |
| D8R Semi-U EROPS (9-43) (3Q02) | 17060 | 64.8 | 0.1 | 49.35 | 227.26 | 1 | 227.26 | $/HR | | | | | 27.1 | HR | 6159 |
| | | | | | | | | | | | | | | | |
| Support Equipment and Personnel | | | | | | | | | | | | | | | |
| D8R Semi-U EROPS (9-43) (3Q02) | 17060 | 64.8 | 0.1 | 49.35 | 227.26 | 1 | 227.26 | $/HR | | | | | 85.8 | HR | 19499 |
| 988G EROPS (9-27) (3Q02) | 13685 | 57.75 | 0.1 | 49.35 | 198.41 | 1 | 198.41 | $/HR | | | | | 1447.7 | HR | 287238 |
| | | | | | | | | | | | | | | | |
| 140H EROPS (9-1) (3Q02) | 6060 | 22.8 | 0.1 | 49.35 | 112.31 | 1 | 112.31 | $/HR | | | | | 85.77 | HR | 9633 |
| 5,000 gal H2O truck Diesel (20-6) (2Q02) | 4895 | 27.15 | 0.1 | 39.15 | 99.61 | 1 | 99.61 | $/HR | | | | | 85.77 | HR | 8544 |
| CLAB | | | | | 38.5 | 1 | 38.5 | $/HR | | | | | 1447.7 | HR | 55736 |
| Foreman Average, Outside | | | | | 51.3 | 1 | 51.3 | $/HR | | | | | 1447.7 | HR | 74267 |
| Total | | | | | | | | | | | | | | | 810852 |

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| | Equipment Cost | Hourly Operating Costs | Equipment Overhead | Operator's Hourly Wage Rate | Hourly Cost | Number of Men or Eq. | Total Eq. & Lab. Costs | Units | Quantity | Units | Production Rate | Units | Equip. + Labor Time/Dis. | Units | Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | |
| Pocking | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Main Mine Pinion Juniper | | | | | | | | | | | | | | | |
| Area | | | | | | | | | 34.2 | AC | | | | | |
| Volume | | | | | | | | | 340 | CY/AC | | | | | |
| CAT 325BL (10-8)(3Q02) | 9205 | 31.55 | 0.1 | 49.35 | 141.59 | 1 | 141.59 | | 11628 | CY | 180 | CY/HR | 64.6 | HR | 9147 |
| | | | | | | | | | | | | | | | |
| Main Mine Riparian | | | | | | | | | | | | | | | |
| Area | | | | | | | | | 3.6 | | | | | | |
| Volume | | | | | | | | | 340 | CY/AC | | | | | |
| CAT 325BL (10-8)(3Q02) | 9205 | 31.55 | 0.1 | 49.35 | 141.59 | 1 | 141.59 | | 1224 | CY | 180 | CY/HR | 6.8 | HR | 963 |
| | | | | | | | | | | | | | | | |
| Main Mine Raparian | | | | | | | | | | | | | | | |
| Area | | | | | | | | | 8.8 | | | | | | |
| Volume | | | | | | | | | 340 | CY/AC | | | | | |
| CAT 325BL (10-8)(3Q02) | 9205 | 31.55 | 0.1 | 49.35 | 141.59 | 1 | 141.59 | | 2992 | CY | 180 | CY/HR | 16.6 | HR | 2350 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | 12460 |

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# Deer Creek Mine

## Deer Creek Mine Portal Facilities: C/015/0018

Reclamation Bond Estimates

Revegetation

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Main Mine Pinion Juniper | | | | | | | | | | | | | | | | | | | 46330 |
| | Main Mine Riparian | | | | | | | | | | | | | | | | | | | 9906 |
| | Main Mine Mixed Conifer | | | | | | | | | | | | | | | | | | | 22205 |
| | | | | 158.46 | | | | | | | | | | | | | | | | |
| | Total | | | | | | | | | | | | | | | | | | | 78441 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Main Mine Pinion Juniper | | | | | | | | | | | | | | | | | | | |
| | Mulch | Mulch | | | | | | | | | | 1.5 | | | | Ton/AC | | | | |
| | Hay only | Hay Material Cost only | 02370 550 1200 Ma | 65.1 | /TON | | | | | 34.2 | | | | | | AC | | 51 | tons | 3320 |
| | Seeeing | | | | | | | | | | | | | | | | | | | |
| | Material Costs | Main Mine P-J Seed | DeerCreek001 | 158.46 | Acre | | | | | 34.2 | | | | | | AC | | 34.2 | AC | 5419 |
| | Lavor Costs | Hydro Spreader (equip. & labor) B-81 80MS | Reveg002 | 19.01 | /MSF | | | | | 34.2 | | | | | | AC | | 1490 | MSF | 28325 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 37064 |
| | Reseeding Rate 25% | | | | | | | | | | | | | | | | | | | 9266 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 46330 |
| | Total | | | | | | | | | | | | | | | | | | | 46330 |

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| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Main Mine Riparian | | | | | | | | | | | | | | | | | | | |
| | Mulch | Mulch | | | | | | | | | | 1.5 | | | | Ton/AC | | | | |
| | Hay only | Hay Material Cost only | 02370 550 1200 Mat | 158.46 | /TON | | | | | 3.6 | | | | | | AC | | 5 | tons | 792 |
| | Seeeing | | | | | | | | | | | | | | | | | | | |
| | Material Costs | Main Mine Riparian Seed | DeerCreek002 | 317.15 | Acre | | | | | 3.6 | | | | | | AC | | 3.6 | AC | 1142 |
| | Lavor Costs | Hydro Spreader (equip. & labor) B-81 80MSF/day | | 19.01 | /MSF | | | | | 3.6 | | | | | | AC | | 157 | MSF | 2985 |
| | Transplant | | | | | | | | | | | | | | | | | | | |
| | 300 Transplant per Acre | | | | | | | | | | | | | | | | | | | |
| | | 300/acre within 20 ft stream | DeerCreek003 | 300 | Acre | | | | | 3.6 | | | | | | AC | | 3.6 | AC | 1080 |
| | | Bare root seedlings 6" to 10" | 02912 350 0561 | 0.85 | Ea. | | | | | | | | | | 1080 | EA | | 1080 | EA | 918 |
| | 200 Transplant per Acre | | | | | | | | | | | | | | | | | | | |
| | | 200/acre within 20 ft stream | DeerCreek004 | 110 | Acre | | | | | 3.6 | | | | | | AC | | 3.6 | AC | 396 |
| | | Bare root seedlings 6" to 10" | 02912 350 0561 | 0.85 | Ea. | | | | | | | | | | 720 | EA | | 720 | EA | 612 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 7925 |
| | Reseeding Rate 25% | | | | | | | | | | | | | | | | | | | 1981 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 1981 |
| | Total | | | | | | | | | | | | | | | | | | | 9906 |

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Div. of Oil, Gas & Mining

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Main Mine Mixed Conifer | | | | | | | | | | | | | | | | | | | |
| | Mixed Conifers | | | | | | | | | | | | | | | | | | | |
| | Mulch | Mulch | | | | | | | | | | 1.5 | | | | Ton/AC | | | | |
| | Hay only | Hay Material Cost only | 02370 550 1200 Mat | 158.46 | /TON | | | | | 8.8 | | | | | | AC | | 13 | tons | 2060 |
| | Seeeing | | | | | | | | | | | | | | | | | | | |
| | Material Costs | Main Mine Mixed Conifer Seed | DeerCreek008 | 388.35 | Acre | | | | | 8.8 | | | | | | AC | | 8.8 | AC | 3417 |
| | Lavor Costs | Hydro Spreader (equip. & labor) B-81 80MSF | Reveg002 | 19.01 | /MSF | | | | | 8.8 | | | | | | AC | | 383 | MSF | 7281 |
| | Transplant | | | | | | | | | | | | | | | | | | | |
| | Conifter Transplants | | | | | | | | | | | | | | | | | | | |
| | | Main Mine Mixed Conifer Transplant | DeerCreek009 | 395 | Acre | | | | | 8.8 | | | | | | AC | | 8.8 | AC | 3476 |
| | | Bare root seedlings 6" to 10" | 02912 350 0561 | 0.85 | Ea. | | | | | | | | | | 1800 | EA | | 1800 | EA | 1530 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 17764 |
| | Reseeding Rate 25% | | | | | | | | | | | | | | | | | | | 4441 |
| | Subtotal | | | | | | | | | | | | | | | | | | | 4441 |
| | Total | | | | | | | | | | | | | | | | | | | 22205 |

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**Deer Creek Mine**
**Main Mine Facility**
**Seed Mixes**

| Main Mine Pinyon-Juniper | | | | |
|---|---|---|---|---|
| **Species** | **Cost/Pound PLS** | **Pounds PLS/Acre** | **Cost/Acre** | |
| *Grasses* | | | | |
| Bluebunch Wheat Grass | $12.00 | 1.0 | $12.00 | |
| Big Blue Grass | 15 | 0.5 | $7.50 | |
| Basin Wild Rye (Great Basin W.R) | $11.00 | 2.0 | $22.00 | |
| Indian Ricegrass | $9.00 | 3.0 | $27.00 | |
| Thickspike Wheatgrass | $3.50 | 2.0 | $7.00 | |
| Western Wheatgrass | $3.50 | 3.0 | $10.50 | |
| *Forbes* | | | | |
| Blueleaf Aster | $115.00 | 0.5 | $57.50 | |
| Blue Flax | $25.00 | 1.0 | $25.00 | |
| Louisiana Sage | $68.00 | 0.2 | $13.60 | |
| Northern Sweetvetch | $50.00 | 1.0 | $50.00 | |
| Palmer Penstemon | $28.00 | 0.5 | $14.00 | |
| *Shrubs* | | | | |
| Big Sagebrush | $1.00 | 0.5 | $0.50 | |
| Curleaf Mohogany | $1.00 | 2.0 | $2.00 | |
| Fourwing Saltbrush | $3.95 | 3.0 | $11.85 | |
| Saskatoon Serviceberry | $1.00 | 1.0 | $1.00 | |
| Whitestem Rubber Rabbitbrush | $0.55 | 0.2 | $0.11 | |
| | Name | Reference | Cost | Unit |
| | Main Mine P-J Seed | DeerCreek001 | $79.46 | Acre |

| Main MineRiparian | | | | |
|---|---|---|---|---|
| **Species** | **Cost/Pound PLS** | **Pounds PLS/Acre** | **Cost/Acre** | |
| *Grasses* | | | | |
| Indian Ricegrass | $9.00 | 2.0 | $18.00 | |
| Kentucky Blue Grass | $2.00 | 1.0 | $2.00 | |
| Mountain Brome | $1.50 | 2.0 | $3.00 | |
| Needle and Thread Grass | $40.00 | 1.0 | $40.00 | |
| Streambank Wheatgrass | $3.50 | 3.0 | $10.50 | |
| *Forbs* | | | | |
| Blueleaf Aster | $115.00 | 0.2 | $23.00 | |
| Louisiana Sage | $68.00 | 0.2 | $13.60 | |
| Rocky Mountain Penstemon | $22.00 | 1.0 | $22.00 | |
| Silky Lupine | $34.75 | 3.0 | $104.25 | |
| White Yarrow | $8.00 | 0.1 | $0.80 | |
| *Shrubs* | | | | |
| Saskatoon Serviceberry | 80 | 1.0 | $80.00 | |
| | Name | Reference | Cost | Unit |
| | Main Mine Riparian Seed | DeerCreek002 | $317.16 | Acre |
| **Species** | **Cost/Transplant** | **Transplants/Acre** | **Cost/Acre** | |
| *Shrubs* | | | | |
| 300/acre within 20 ft stream | | | | |
| Rocky Mountain Maple | $1.00 | 300.0 | $300.00 | |
| | Name | Reference | Cost | Unit |
| | 300/acre within 20 ft stream | DeerCreek003 | $300.00 | Acre |
| 200/acre within 20 ft stream | | | | |
| Woods Rose | $0.55 | 200.0 | $110.00 | |
| | Name | Reference | Cost | Unit |
| | 200/acre within 20 ft stream | DeerCreek004 | $110.00 | Acre |
| *Trees* | | | | |
| 1 Foot Spacing | | | | |
| Willow | $0.84 | 43560.0 | $36,590.40 | |
| | Name | Reference | Cost | Unit |
| | 1 Foot Spacing | DeerCreek005 | $36,590.40 | Acre |
| 5 Foot Spacing | | | | |
| Red Osier Dogwood | $8.95 | 8712.0 | $77,972.40 | |
| | Name | Reference | Cost | Unit |
| | 5 Foot Spacing | DeerCreek006 | $77,972.40 | Acre |
| 10 Foot Spacing | | | | |
| Narrowleaf Cottonwood | $0.83 | 4356.0 | $3,615.48 | |
| | Name | Reference | Cost | Unit |
| | 10 Foot Spacing | DeerCreek007 | $3,615.48 | Acre |

| Main Mine Mixed Conifer | | | | |
|---|---|---|---|---|
| **Species** | **Cost/Pound PLS** | **Pounds PLS/Acre** | **Cost/Acre** | |
| *Grasses* | | | | |
| Bluebunch Wheat Grass | $12.00 | 1.0 | 12 | |
| Indian Ricegrass | $9.00 | 2.0 | 18 | |
| Western Wheatgrass | $3.50 | 3.0 | 10.5 | |
| Kentucky Blue Grass | $2.00 | 1.0 | 2 | |
| Mountain Brome | $1.50 | 2.0 | 3 | |
| Slender Wheatgrass | $1.25 | 2.0 | 2.5 | |
| *Forbs* | | | | |
| Louisiana Sage | $68.00 | 0.2 | 13.6 | |
| Northern Sweetvetch | $50.00 | 1.0 | 50 | |
| Pacific Aster | $115.00 | 0.2 | 23 | |
| Rocky Mountain Penstemon | $22.00 | 1.0 | 22 | |
| Silky Lupine | $34.75 | 1.0 | 34.75 | |
| *Shrubs* | | | | |
| Mountain Big Sagebrush | $35.00 | 0.2 | 7 | |
| Saskatoon Serviceberry | $80.00 | 2.0 | 160 | |
| Skunkbush Sumac | $30.00 | 1.0 | 30 | |
| | Name | Reference | Cost | Unit |

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| | | | | |
|---|---|---|---|---|
| | Main Mine Mixed Conifer Seed | DeerCreek008 | $368.35 | Acre |
| **Species** | **Cost/Transplant** | **Transplants/Acre** | **Cost/Acre** | |
| *Trees* | | | | |
| White Fir | $0.79 | 250.0 | 197.5 | |
| Douglas Fir | $0.79 | 250.0 | 197.5 | |
| | Name | Reference | Cost | Unit |
| | Main Mine Mixed Conifer Transplant | DeerCreek009 | $395.00 | Acre |

| | | | | |
|---|---|---|---|---|
| **Rilda Canyon** | | | | |
| **Species** | **Cost/Pound PLS** | **Pounds PLS/Acre** | **Cost/Acre** | |
| *Grasses* | | | | |
| Streambank Wheatgrass | $3.50 | 2.0 | 7 | |
| Indian Ricegrass | $9.00 | 2.0 | 18 | |
| Needle and Thread Grass | $40.00 | 2.0 | 80 | |
| Slender Wheatgrass | $1.25 | 2.0 | 2.5 | |
| Western Wheatgrass | $3.50 | 2.0 | 7 | |
| Kentucky Blue Grass | $2.00 | 1.0 | 2 | |
| Mountain Brome | $1.50 | 2.0 | 3 | |
| Blue Wildrye | $4.50 | 1.0 | 4.5 | |
| *Forbs* | | | | |
| Louisiana Sage | $68.00 | 2.0 | 136 | |
| Silky Lupine | $34.75 | 10.0 | 347.5 | |
| Northern Sweetvetch | $50.00 | 0.5 | 25 | |
| Eaton Penstemon | $70.00 | 2.0 | 140 | |
| Blueleaf Aster | $115.00 | 0.5 | 57.5 | |
| | Name | Reference | Cost | Unit |
| | Rilda Seed | DeerCreek010 | $830.00 | Acre |
| **Species** | **Cost/Transplant** | **Transplants/Acre** | **Cost/Acre** | |
| **100/acre** | | | | |
| *Trees* | | | | |
| White Fir | $0.79 | 100.0 | 79 | |
| Douglas Fir | $8.95 | 100.0 | 895 | |
| | Name | Reference | Cost | Unit |
| | Rilda Trans 100/AC | DeerCreek011 | $974.00 | Acre |
| **200/acre** | | | | |
| *Trees* | | | | |
| Narrowleaf Cottonwood | $0.83 | 200.0 | 166 | |
| | Name | Reference | Cost | Unit |
| | Rilda Trans 200/AC | DeerCreek012 | $166.00 | Acre |
| **400/acre** | | | | |
| *Shrubs* | | | | |
| Rocky Mountain Maple | $1.00 | 400.0 | 400 | |
| Saskatoon Serviceberry | $1.00 | 400.0 | 400 | |
| Oregon Grape | $0.55 | 400.0 | 220 | |
| Woods Rose | $0.55 | 400.0 | 220 | |
| Willow | $0.84 | 400.0 | 336 | |
| | Name | Reference | Cost | Unit |
| | Rilda Trans 400/AC | DeerCreek013 | $440.00 | Acre |
| **600/acre** | | | | |
| *Shrubs* | | | | |
| Red Osier Dogwood | $8.95 | 600.0 | 5370 | |
| | Name | Reference | Cost | Unit |
| | Rilda Trans 600/AC | DeerCreek014 | $5,370.00 | Acre |

| | | | | |
|---|---|---|---|---|
| **Deer Creek Mine Waste Rock Site** | | | | |
| **Species** | **Cost/Pound PLS** | **Pounds PLS/Acre** | **Cost/Acre** | |
| *Grasses* | | | | |
| Thickspike Wheatgrass | $3.50 | 2.0 | 7 | |
| Streambank Wheatgrass | $3.50 | 2.0 | 7 | |
| Basin Wild Rye (Great Basin W R) | $11.00 | 3.0 | 33 | |
| Galleta | $3.00 | 1.0 | 3 | |
| Indian Ricegrass | $9.00 | 2.0 | 18 | |
| Sandberg Bluegrass | $3.50 | 0.5 | 1.75 | |
| Bottlebrush Squirreltail | $25.00 | 1.0 | 25 | |
| Alkali Sacaton | $7.00 | 0.3 | 1.75 | |
| *Forbes* | | | | |
| Prairie Aster | | 0.5 | 0 | |
| Northern Sweetvetch | $50.00 | 1.0 | 50 | |
| Yellow Sweetclover | $0.75 | 3.0 | 2.25 | |
| Firecracker Penstemon | 70 | 1.0 | 70 | |
| Scarlet Globemallow | $192.00 | 0.5 | 96 | |
| Alfalfa | $1.50 | 1.0 | 1.5 | |
| *Shrubs* | | | | |
| Black Sagebrush | $75.00 | 1.0 | 75 | |
| Fourwing Saltbrush | $5.00 | 5.0 | 25 | |
| Shadscale | $10.50 | 3.0 | 31.5 | |
| Castle Valley Saltbrush | 35 | 5.0 | 175 | |
| Low Rabbitbrush | $42.00 | 1.0 | 42 | |
| Green Mormon Tea | $25.00 | 5.0 | 125 | |
| Corymbed Eriogonum | $50.00 | 2.0 | 100 | |
| Winterfat | $15.00 | 2.0 | 30 | |
| Big Basin Sagebrush | $45.00 | 0.3 | 11.25 | |
| | Name | Reference | Cost | Unit |
| | Waste Rock Site | DeerCreek015 | $931.00 | Acre |

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# Deer Creek Mine

## Rilda Canyon Portal Facilities: C/015/0018

Reclamation Bond Estimates

Demolition

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**Summary**
**Demolition**

| Description | Cost |
|---|---|
| | |
| Mine Ventilation Fan | $46,377 |
| Substation | $7,917 |
| MCC Building | $8,104 |
| Oil and Fuel Storage | $4,012 |
| Fencing | $2,995 |
| Covered Storage Bins | $9,391 |
| Rock Dust Silo | $7,767 |
| Waste and Material Bins | $11,270 |
| Pad and MSE Wall | $165,912 |
| Buried Culverts | $93,535 |
| | |
| | |
| | |
| **Total** | **$357,280** |

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## Mine Ventilitation Fan

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Volume (cy) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | | 50 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | 8 | hr | $ 71.20 | $ 569.60 | |
| | Common Building Labor | | CLAB | 2 | | | 32 | hr | $ 52.70 | $ 3,372.80 | |
| | 01 54 33 60 2720 | Crane 100 ton | | 1 | | | 32 | hr | $ 206.25 | $ 6,600.00 | |
| | Equipment Operator, Crane or Shovel | | Eqhv | 1 | | | 32 | hr | $ 69.45 | $ 2,222.40 | |
| | N/A | Utility Truck | | 1 | | | 32 | hr | $ 8.00 | $ 256.00 | 1 |
| **Concrete Demolition Cost** | | | | | 530 | | | | | | 2, 3 |
| | Foreman Average, Outside | | Foreman | 1 | | | 5.0 | hr | $ 71.20 | $ 356.00 | |
| | Common Building Labor | | CLAB | 2 | | | 21.0 | hr | $ 52.70 | $ 2,213.40 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 21.0 | hr | $ 118.43 | $ 2,487.03 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 21.0 | hr | $ 67.75 | $ 1,422.75 | |
| | 01 54 33 20 0347 | Hydraulic Hammer | | 1 | | | 21.0 | hr | $ 44.03 | $ 924.63 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 21.0 | hr | $ 118.43 | $ 2,487.03 | |
| | 01 54 33 20 0342 | Bucket Thumb | | 1 | | | 21.0 | hr | $ 21.38 | $ 448.98 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 21.0 | hr | $ 67.75 | $ 1,422.75 | |
| | 01 54 33 40 0700 | Compressor - 1200 CFM | | 1 | | | 21.0 | hr | $ 56.67 | $ 1,190.07 | 4 |
| | 01 54 33 40 0040 | Air tools, breaker, pavement, 60 lb. | | 1 | | | 21.0 | hr | $ 1.30 | $ 27.30 | |
| | 01 54 33 40 1000 | Hose w/couplings 50 ft., 1" dia. | | 4 | | | 21.0 | hr | $ 1.30 | $ 109.20 | |
| | N/A | Utility Truck | | 1 | | | 21.0 | hr | $ 8.00 | $ 168.00 | |
| **Transportation Costs** | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 1 | | | 20 | hr | $ 63.25 | $ 1,265.00 | 5 |
| | Truck Driver, Light | | Drlt | 1 | | | 20 | hr | $ 50.75 | $ 1,015.00 | |
| | 01 54 33 40 7200 | Pickup Truck - 3/4 ton 4x4 | | 1 | | | 53 | hr | $ 13.08 | $ 693.24 | |
| **Miscellaneous** | | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19 23 0050 | | | | | 50 | | ton | $ 90.00 | $ 4,500.00 | |
| Demolished Concrete Handling | | | | | 669 | | | | | | 6 |
| | 01 54 33 20 4760 | Loader - 5-1/4 to 5-3/4 CY 200hp | | 2 | | | 34 | hr | $ 116.68 | $ 7,934.24 | 7 |
| | Equipment Operator, Medium Equipment | | Eqmd | 2 | | | 34 | hr | $ 67.75 | $ 4,607.00 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | 53 | hr | $ 1.60 | $ 84.80 | |
| **Total** | | | | | | | | | | $ 46,377.22 | |

Reference Information
1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9" grinder.
2 - Concrete rubble disposed of as fill or permanently backfilled inside portals.
3 - Base on a concrete demolition production of 200 cubic yards per 8 hour shift. (Reference: http://www.indeco-breakers.com).
4 - Added 5% for larger size compressor.
5 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.
6 - A swell factor of 1.3 is used for crushed concrete. Rental cost for 5.5 CY loader is used in place of Wagner scoop for transporting and storing crushed concrete in mine.
7 - Based on haul of 5 CY at 30 min round trip or 2 trips/hour.



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## Substation and Power Poles

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Volume (cy) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | | 5 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 2 | | | 6 | hr | $ 52.70 | $ 632.40 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 6 | hr | $ 118.43 | $ 710.58 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 6 | hr | $ 67.75 | $ 406.50 | |
| | N/A | Utility Truck | | 1 | | | 6 | hr | $ 8.00 | $ 48.00 | 1 |
| **Concrete Demolition Cost** | | | | | 17 | | | | | | 2, 3 |
| | Foreman Average, Outside | | Foreman | 1 | | | 1.0 | hr | $ 71.20 | $ 71.20 | |
| | Common Building Labor | | CLAB | 2 | | | 1.0 | hr | $ 52.70 | $ 105.40 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 1.0 | hr | $ 118.43 | $ 118.43 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 1.0 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 20 0347 | Hydraulic Hammer | | 1 | | | 1.0 | hr | $ 44.03 | $ 44.03 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 1.0 | hr | $ 118.43 | $ 118.43 | |
| | 01 54 33 20 0342 | Bucket Thumb | | 1 | | | 1.0 | hr | $ 21.38 | $ 21.38 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 1.0 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 40 0700 | Compressor - 1200 CFM | | 1 | | | 1.0 | hr | $ 56.67 | $ 56.67 | |
| | 01 54 33 40 0940 | Air tools, breaker, pavement, 60 lb. | | 1 | | | 1.0 | hr | $ 1.30 | $ 1.30 | |
| | 01 54 33 40 1000 | Hose w/couplings 50 ft., 1" dia. | | 4 | | | 1.0 | hr | $ 0.51 | $ 2.04 | |
| | N/A | Utility Truck | | 1 | | | 1.0 | hr | $ 8.00 | $ 8.00 | |
| | | | | | | | | | | | |
| **Pole Removal** | | | | 14 | | 5 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 2 | | | 8 | hr | $ 52.70 | $ 843.20 | |
| | 01 54 33 60 2720 | Crane - 100 ton | | 1 | | | 8 | hr | $ 206.25 | $ 1,650.00 | |
| | Equipment Operator, Heavy Equipment | | Eqhv | 1 | | | 8 | hr | $ 69.45 | $ 555.60 | |
| **Transportation Costs** | | | | | | | | | | | |
| | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 1 | | | 2 | hr | $ 63.25 | $ 126.50 | 4 |
| | Truck Driver, Light | | Drlt | 1 | | | 2 | hr | $ 50.75 | $ 101.50 | |
| | 01 54 33 40 7300 | Tractor - 4x2, 220hp | | 1 | | | 2 | hr | $ 34.90 | $ 69.80 | |
| | 01 54 33 40 6500 | Trailer, platform, 2 axle, 25 ton | | 1 | | | 2 | hr | $ 13.90 | $ 27.80 | 5 |
| | Truck Driver, Heavy | | Drhv | 1 | | | 2 | hr | $ 52.25 | $ 104.50 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | | 15 | hr | $ 13.08 | $ 196.20 | |
| **Miscellaneous** | | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19.23 0950 | | | | | 10 | | ton | $ 90.00 | $ 900.00 | |
| Demolished Concrete Handling | | | | | 22.1 | | | | | | 6 |
| | 01 54 33 20 4760 | Loader - 5-1/4 to 5-3/4 CY 290hp | | 2 | | | 1.5 | hr | $ 116.68 | $ 350.04 | 7 |
| | Equipment Operator, Medium Equipment | | Eqmd | 2 | | | 1.5 | hr | $ 67.75 | $ 203.25 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | 15 | hr | $ 1.60 | $ 24.00 | |
| **Total** | | | | | | | | | | $ 7,017.05 | |

Reference Information

1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9" grinder.
2 - Concrete rubble disposed of as fill or permanently backfilled inside portals.
3 - Base on a concrete demolition production of 200 cubic yards per 8 hour shift. (Reference: http://www.indeco-breakers.com).
4 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.
5 - Haulage for removed power pole lengths.
6 - A swell factor of 1.3 is used for crushed concrete. Rental cost for 5.5 CY loader is used in place of Wagner scoop for transporting and storing crushed concrete in mine.
7 - Based on haul of 5 CY at 30 min round trip or 2 trips/hour.

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## MCC Building

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Volume (cy) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | | 10 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | 4 | hr | $ 71.20 | $ 284.80 | |
| | Common Building Labor | | CLAB | 2 | | | 16 | hr | $ 52.70 | $ 1,686.40 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 16 | hr | $ 118.43 | $ 1,894.88 | |
| | Equipment Operator, Medium Equipment | Operator | Eqmd | 1 | | | 16 | hr | $ 67.75 | $ 1,084.00 | |
| | N/A | Utility Truck | | 1 | | | 16 | hr | $ 8.00 | $ 128.00 | 1 |
| **Concrete Demolition Cost** | | | | | 25 | | | | | | 2, 3 |
| | Foreman Average, Outside | | Foreman | 1 | | | 1.0 | hr | $ 71.20 | $ 71.20 | |
| | Common Building Labor | | CLAB | 2 | | | 1.0 | hr | $ 52.70 | $ 105.40 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 1.0 | hr | $ 118.43 | $ 118.43 | |
| | Equipment Operator, Medium Equipment | Operator | Eqmd | 1 | | | 1.0 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 20 0347 | Hydraulic Hammer | | 1 | | | 1.0 | hr | $ 44.03 | $ 44.03 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 1.0 | hr | $ 118.43 | $ 118.43 | |
| | 01 54 33 20 0342 | Bucket Thumb | | 1 | | | 1.0 | hr | $ 21.38 | $ 21.38 | |
| | Equipment Operator, Medium Equipment | Operator | Eqmd | 1 | | | 1.0 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 40 0700 | Compressor - 1200 CFM | | 1 | | | 1.0 | hr | $ 56.67 | $ 56.67 | |
| | 01 54 33 40 0940 | Air tools, breaker, pavement, 60 lb. | | 1 | | | 1.0 | hr | $ 1.30 | $ 1.30 | |
| | 01 54 33 40 1000 | Hose w/couplings 50 ft., 1" dia. | | 4 | | | 1.0 | hr | $ 0.51 | $ 2.04 | |
| | N/A | Utility Truck | | 1 | | | 1.0 | hr | $ 8.00 | $ 8.00 | |
| | | | | | | | | | | | |
| **Transportation Costs** | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 1 | | | 4 | hr | $ 63.25 | $ 253.00 | 4 |
| | | Driver | Drlt | 1 | | | 4 | hr | $ 50.75 | $ 203.00 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | | 17 | hr | $ 13.08 | $ 222.36 | |
| **Miscellaneous** | | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19.23 0950 | | | | | 10 | | ton | $ 90.00 | $ 900.00 | |
| Demolished Concrete Handling | | | | | 32.5 | | | | | | 5 |
| | 01 54 33 20 4760 | Loader - 5-1/4 to 5-3/4 CY 290hp | | 2 | | | 2 | hr | $ 116.68 | $ 466.72 | 6 |
| | Equipment Operator, Medium Equipment | | Eqmd | 2 | | | 2 | hr | $ 67.75 | $ 271.00 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | 17 | | $ 1.60 | $ 27.20 | |
| **Total** | | | | | | | | | | $ 8,103.74 | |

**Reference Information**

1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9" grinder.
2 - Concrete rubble disposed of as fill or permanently backfilled inside portals.
3 - Base on a concrete demolition production of 200 cubic yards per 8 hour shift. (Reference: http://www.indeco-breakers.com)
4 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.
5 - A swell factor of 1.3 is used for crushed concrete. Rental cost for 5.5 CY loader is used in place of Wagner scoop for transporting and storing crushed concrete in mine.
6 - Based on haul of 5 CY at 30 min round trip or 2 trips/hour.

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## Oil Storage/Fuel Storage

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | 10 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 2 | | 8 | hr | $ 52.70 | $ 843.20 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | 8 | hr | $ 118.43 | $ 947.44 | |
| | Equipment Operator, Medium Equipment | Operator | Eqmd | 1 | | 8 | hr | $ 67.75 | $ 542.00 | |
| | N/A | Utility Truck | | 1 | | 8 | hr | $ 8.00 | $ 64.00 | 1 |
| **Concrete Demolition Cost** | Note: Cost for removing pedestal footers and pad is included with pad demolition costs. | | | | | | | | | 2 |
| **Transportation Costs** | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 1 | | 4 | hr | $ 63.25 | $ 253.00 | 3 |
| | | Driver | Drlt | 1 | | 4 | hr | $ 50.75 | $ 203.00 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | 8 | hr | $ 13.08 | $ 104.64 | |
| **Miscellaneous** | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19.23 0950 | | | | 10 | | ton | $ 90.00 | $ 900.00 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | 8 | hr | $ 1.60 | $ 12.80 | |
| **Total** | | | | | | | | | $ 4,012.48 | |

Reference Information

1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9" grinder.

2 - Concrete rubble disposed of as fill or permanently backfilled inside portals.

3 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.

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## Fences

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Length (ft) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | 365 | 5 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 2 | | | 8 | hr | $ 52.70 | $ 843.20 | |
| | 01 54 33 20 0470 | Back-hoe, 112hp | | 1 | | | 8 | hr | $ 76.00 | $ 608.00 | |
| | Equipment Operator, Light Equipment | Operator | Eqlt | 1 | | | 8 | hr | $ 67.75 | $ 542.00 | |
| | N/A | Utility Truck | | 1 | | | 8 | hr | $ 8.00 | $ 64.00 | |
| **Concrete Demolition Cost** | N/A | | | | | | | | | | |
| **Transportation Costs** | | | | | | | | | | | |
| | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 1 | | | 2 | hr | $ 63.25 | $ 126.50 | 1 |
| | | Driver | Drlt | 1 | | | 2 | hr | $ 50.75 | $ 101.50 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | | 8 | hr | $ 13.08 | $ 104.64 | |
| **Miscellaneous** | | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19.23 0950 | | | | | 5 | | ton | $ 90.00 | $ 450.00 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | 8 | hr | $ 1.60 | $ 12.80 | |
| **Total** | | | | | | | | | | $ 2,995.04 | |

Reference Information
1 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.

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## Covered Storage

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | 15 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | 6 | hr | $ 71.20 | $ 427.20 | |
| | Common Building Labor | | CLAB | 2 | | 24 | hr | $ 52.70 | $ 2,529.60 | |
| | 01 54 33 20 4760 | Loader - 5.5 CY | | 1 | | 24 | hr | $ 116.68 | $ 2,800.32 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | 24 | hr | $ 67.75 | $ 1,626.00 | |
| | N/A | Utility Truck | | 1 | | 24 | hr | $ 8.00 | $ 192.00 | 1 |
| **Concrete Demolition Cost** | N/A | | | | | | | | | |
| **Transportation Costs** | | | | | | | | | | 2 |
| | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 1 | | 6 | hr | $ 63.25 | $ 63.25 | |
| | | Driver | Drlt | 1 | | 6 | hr | $ 50.75 | $ 50.75 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | 24 | hr | $ 13.08 | $ 313.92 | |
| **Miscellaneous** | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19.23 0950 | | | | 15 | | ton | $ 90.00 | $ 1,350.00 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | 24 | hr | $ 1.60 | $ 38.40 | |
| **Total** | | | | | | | | | $ 9,601.84 | |

Reference Information
1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9" grinder.
2 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.

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## Rock Dust Silo

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Volume (cy) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | | 15 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 2 | | | 8 | hr | $ 52.70 | $ 843.20 | |
| | 01 54 33 60 2720 | Crane - 100 ton | | 1 | | | 8 | hr | $ 206.25 | $ 1,650.00 | |
| | Equipment Operator, Crane or Shovel | | Eqhv | 1 | | | 8 | hr | $ 69.45 | $ 555.60 | |
| | N/A | Utility Truck | | 1 | | | 8 | hr | $ 8.00 | $ 64.00 | 1 |
| **Concrete Demolition Cost** | | | | | 16.5 | | | | | | 2, 3 |
| | Foreman Average, Outside | | Foreman | 1 | | | 1.0 | hr | $ 71.20 | $ 71.20 | |
| | Common Building Labor | | CLAB | 2 | | | 1.5 | hr | $ 52.70 | $ 155.99 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 1.5 | hr | $ 118.43 | $ 118.43 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 1.5 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 20 0347 | Hydraulic Hammer | | 1 | | | 1.5 | hr | $ 44.03 | $ 44.03 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 1.5 | hr | $ 118.43 | $ 118.43 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 1.5 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 40 0700 | Compressor - 1200 CFM | | 1 | | | 1.5 | hr | $ 56.67 | $ 83.67 | |
| | 01 54 33 40 0940 | Air tools, breaker, pavement, 60 lb. | | 1 | | | 1.5 | hr | $ 1.30 | $ 1.92 | |
| | 01 54 33 40 1000 | Hose w/couplings 50 ft., 1" dia. | | 4 | | | 1.5 | hr | $ 0.51 | $ 3.02 | |
| | N/A | Utility Truck | | 1 | | | 1.5 | hr | $ 8.00 | $ 11.84 | |
| **Transportation Costs** | | | | | | | | | | | 4 |
| | 01 54 33 40 7300 | Tractor - 4x2, 220hp | | 1 | | | 14 | hr | $ 34.90 | $ 488.60 | |
| | 01 54 33 40 6500 | Trailer, platform, 2 axle, 25 ton | | 1 | | | 14 | hr | $ 13.90 | $ 194.60 | |
| | Truck Driver, Heavy | | | 1 | | | 14 | hr | $ 52.25 | $ 731.50 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | | 8 | hr | $ 13.08 | $ 104.64 | |
| **Miscellaneous** | | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19 23 0950 | | | | | 15 | | ton | $ 90.00 | $ 1,350.00 | |
| Demolished Concrete Handling | | | | | 24.1 | | | | | | 5 |
| | 01 54 33 20 4760 | Loader - 5-1/4 to 5-3/4 CY 290hp | | 2 | | | 2.4 | hr | $ 116.68 | $ 560.06 | 6 |
| | Equipment Operator, Medium Equipment | | Eqmd | 2 | | | 2.4 | hr | $ 67.75 | $ 325.20 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | 8 | hr | $ 1.60 | $ 12.80 | |
| **Total** | | | | | | | | | | $ 7,766.84 | |

Reference Information

1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9' grinder.
2 - Concrete rubble disposed of as fill or permanently backfilled inside portals.
3 - Base on a concrete demolition production of 200 cubic yards per 8 hour shift. (Reference: http://www.indeco-breakers.com).
4 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.
5 - A swell factor of 1.3 is used for crushed concrete. Rental cost for 5.5 CY loader is used in place of Wagner scoop for transporting and storing crushed concrete in mine.
6 - Based on haul of 5 CY at 30 min round trip or 2 trips/hour.

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## Waste and Material Bins

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Volume (cy) | Length (ft) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | | | | | | | 15 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 2 | | | | 8 | hr | $ 52.70 | $ 843.20 | |
| | 01 54 33 60 2720 | Crane - 100 ton | | 1 | | | | 8 | hr | $ 206.25 | $ 1,650.00 | |
| | Equipment Operator, Crane or Shovel | | Eqhv | 1 | | | | 8 | hr | $ 69.45 | $ 555.60 | |
| | N/A | Utility Truck | | 1 | | | | 8 | hr | $ 8.00 | $ 64.00 | 1 |
| **Concrete Demolition Cost** | | | | | 122 | 411 | | | | | | 2, 3 |
| | Foreman Average, Outside | | Foreman | 1 | | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 3 | | | | 9.8 | hr | $ 52.70 | $ 1,543.06 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | | 9.8 | hr | $ 118.43 | $ 118.43 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | | 9.8 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 20 0347 | Hydraulic Hammer | | 1 | | | | 9.8 | hr | $ 44.03 | $ 44.03 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | | 9.8 | hr | $ 118.43 | $ 118.43 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | | 9.8 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 40 0700 | Compressor - 1200 CFM | | 1 | | | | 9.8 | hr | $ 56.67 | $ 553.10 | |
| | 01 54 33 40 0940 | Air tools, breaker, pavement, 60 lb. | | 1 | | | | 9.8 | hr | $ 1.30 | $ 12.69 | |
| | 01 54 33 40 1000 | Hose w/couplings 50 ft., 1" dia. | | 4 | | | | 9.8 | hr | $ 0.51 | $ 19.91 | |
| | N/A | Utility Truck | | 1 | | | | 9.8 | hr | $ 8.00 | $ 78.08 | |
| **Transportation Costs** | | | | | | | | | | | | 4 |
| | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 1 | | | | 6 | hr | $ 63.25 | $ 379.50 | |
| | | Driver | Drit | 1 | | | | 6 | hr | $ 50.75 | $ 304.50 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | | | 18 | hr | $ 13.08 | $ 235.44 | |
| **Miscellaneous** | | | | | | | | | | | | |
| Disposal Fee - Metal | 02 41 19.23 0950 | | | | | | 15 | | ton | $ 90.00 | $ 1,350.00 | |
| Demolished Concrete Handling | | | | | 158.6 | | | | | | | 5 |
| | 01 54 33 20 4760 | Loader - 5-1/4 to 6-3/4 CY 200hp | | 2 | | | | 8 | hr | $ 116.68 | $ 1,866.88 | 6 |
| | Equipment Operator, Medium Equipment | | Eqmd | 2 | | | | 8 | hr | $ 67.75 | $ 1,084.00 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | | 18 | hr | $ 1.60 | $ 28.80 | |
| **Total** | | | | | | | | | | | $11,269.94 | |

Reference Information

1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9" grinder.
2 - Concrete rubble disposed of as fill or permanently backfilled inside portals.
3 - Base on a concrete demolition production of 200 cubic yards per 8 hour shift. (Reference: http://www.indeco-breakers.com). Reduce to 100 cy/day for vertical demolition
4 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.
5 - A swell factor of 1.3 is used for crushed concrete. Rental cost for 5.5 CY loader is used in place of Wagner scoop for transporting and storing crushed concrete in mine.
6 - Based on haul of 5 CY at 30 min round trip or 2 trips/hour.
7 - Substitute 100kw diesel generator for augcillary ventilation fan.

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**Pad and MSE Wall**

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Volume (cy) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | N/A | | | | | | | | | | |
| **Concrete Demolition Cost** | | | | | 2230 | | | | | | 2, 3 |
| | Foreman Average, Outside | | Foreman | 1 | | | 22 | hr | $ 71.20 | $ 1,566.40 | |
| | Common Building Labor | | CLAB | 3 | | | 89 | hr | $ 52.70 | $ 14,102.52 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 89 | hr | $ 118.43 | $ 10,563.96 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 89 | hr | $ 67.75 | $ 6,043.30 | |
| | 01 54 33 20 0347 | Hydraulic Hammer | | 1 | | | 89 | hr | $ 44.03 | $ 3,927.48 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 89 | hr | $ 118.43 | $ 10,563.96 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 89 | hr | $ 67.75 | $ 6,043.30 | |
| | 01 54 33 40 0700 | Compressor - 1200 CFM | | 1 | | | 89 | hr | $ 56.67 | $ 5,054.96 | |
| | 01 54 33 40 0940 | Air tools, breaker, pavement, 60 lb. | | 1 | | | 89 | hr | $ 1.30 | $ 115.96 | |
| | 01 54 33 40 1000 | Hose w/couplings 50 ft., 1" dia. | | 4 | | | 89 | hr | $ 0.51 | $ 181.97 | |
| | N/A | Utility Truck | | 1 | | | 89 | hr | $ 8.00 | $ 713.60 | 1 |
| **Asphalt Demolition** | | | | | 65 | 87.75 | | | | | |
| **Access Road** | Foreman Average, Outside | | Foreman | 1 | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 1 | | | 8 | hr | $ 52.70 | $ 421.60 | |
| | 01 54 33 20 4760 | Loader - 5.5 CY | | 1 | | | 8 | hr | $ 116.68 | $ 933.44 | |
| | Truck Driver, Light | | Drlt | 3 | | | 8 | hr | $ 50.75 | $ 1,218.00 | |
| **MSE Wall** | | | | | | 5 | | | | | |
| | Foreman Average, Outside | | Foreman | 1 | | | 10 | hr | $ 71.20 | $ 712.00 | |
| | Common Building Labor | | CLAB | 4 | | | 67.5 | hr | $ 52.70 | $ 14,229.00 | |
| | 01 54 33 20 4310 | Dozer - 300hp | | 1 | | | 67.5 | hr | $ 200.88 | $ 13,559.40 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 67.5 | hr | $ 67.75 | $ 4,573.13 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | 67.5 | hr | $ 118.43 | $ 7,994.03 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 67.5 | hr | $ 67.75 | $ 4,573.13 | |
| **Transportation Costs** | | | | | | | | | | | 4 |
| | 01 54 33 40 7300 | Tractor - 4x2, 220hp | | 1 | | | 4 | hr | $ 34.90 | $ 139.60 | |
| | 01 54 33 40 6500 | Trailer, platform, 2 axle, 25 ton | | 1 | | | 4 | hr | $ 13.90 | $ 55.60 | |
| | Truck Driver, Heavy | | | 1 | | | 4 | hr | $ 52.25 | $ 209.00 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | 8 | hr | $ 52.25 | $ 418.00 | |
| | 01 54 33 20 5300 | Dump Truck - 3 axle, 12 CY | | 3 | | | 8 | hr | $ 63.25 | $ 1,518.00 | |
| | 01 54 33 40 7200 | Truck - Forman and Crew | | 1 | | | 165 | hr | $ 13.08 | $ 2,151.66 | |
| **Miscellaneous** | | | | | | | | | | | |
| Disposal Fee | 02 41 19.23 0950 | | | | | 5 | | ton | $ 90.00 | $ 450.00 | |
| Demolished Concrete Handling | | | | | 2899 | | | | | | 5 |
| | 01 54 33 20 4760 | Loader - 5-1/4 to 5-3/4 CY 290hp | | 2 | | | 145 | hr | $ 116.68 | $ 33,825.53 | 6 |
| | Equipment Operator, Medium Equipment | | Eqmd | 2 | | | 145 | hr | $ 67.75 | $ 19,647.50 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | 165 | hr | $ 1.60 | $ 263.20 | |
| **Total** | | | | | | | | | | $165,911.61 | |

Reference Information

1 - From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 71/4 " circular saw, 9" grinder.

2 - Concrete rubble disposed of as fill or permanently backfilled inside portals. CY total based on an area of 80,275 sf by 9" thick concrete.

3 - Base on a concrete demolition production of 200 cubic yards per 8 hour shift. (Reference: http://www.indeco-breakers.com)

4 - For haul of steel demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.

5 - A swell factor of 1.3 is used for crushed concrete. Rental cost for 5.5 CY loader is used in place of Wagner scoop for transporting and storing crushed concrete in mine.

6 - Based on haul of 5 CY at 30 min round trip or 2 trips/hour.

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**Buried Culverts**

| Description | Means Reference Number (2011 Heavy Construction Cost Data) | Equipment | Labor | Quantity (number) | Volume (cy) | Length (ft) | Weight (tons) | Time (hr) | Unit | Cost | Total Cost | Ref. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Steel Demolition Cost** | N/A | | | | | | | | | | | |
| **Concrete Demolition Cost** | | | | | 15.5 | | | | | | | 1, 2 |
| | Foreman Average, Outside | | Foreman | 1 | | | | 2 | hr | $ 71.20 | $ 142.40 | |
| | Common Building Labor | | CLAB | 1 | | | | 7.0 | hr | $ 52.70 | $ 368.90 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 1 | | | | 7.0 | hr | $ 118.43 | $ 118.43 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | | 7.0 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 40 5800 | Chain Saw 18" | | 1 | | | | 7.0 | hr | $ 10.00 | $ 70.00 | |
| | 01 54 33 20 4760 | Loader 5.5 CY | | 1 | | | | 1.0 | hr | $ 116.68 | $ 116.68 | |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | | 1.0 | hr | $ 67.75 | $ 67.75 | |
| | N/A | Utility Truck | | 1 | | | | 7.0 | hr | $ 8.00 | $ 56.00 | 3 |
| **Excavation of Culverts** | | | | | | 2711 | 64.4 | | | | | 4 |
| | Foreman Average, Outside | | Foreman | 1 | | | | 40 | hr | $ 71.20 | $ 2,848.00 | |
| | Common Building Labor | | CLAB | 2 | | | | 161 | hr | $ 52.70 | $ 16,969.40 | |
| | 01 54 33 20 0200 | Excavator - 1.5 CY | | 2 | | | | 161 | hr | $ 118.43 | $ 38,134.46 | |
| | Equipment Operator, Medium Equipment | | | 2 | | | | 161 | hr | $ 67.75 | $ 21,815.50 | |
| | 01 54 33 40 5800 | Chain Saw 18" | | 1 | | | | 161 | hr | $ 10.00 | $ 1,610.00 | |
| | N/A | Utility Truck | | 1 | | | | 161 | hr | $ 8.00 | $ 1,288.00 | 3 |
| | | | | | | | | | | | | |
| **Transportation Costs** | | | | | | | | | | | | 5 |
| | 01 54 33 40 7300 | Tractor - 4x2, 220hp | | 1 | | | | 14 | hr | $ 34.90 | $ 488.60 | |
| | 01 54 33 40 6500 | Trailer, platform, 2 axle, 25 ton | | 1 | | | | 14 | hr | $ 13.90 | $ 194.60 | |
| | Truck Driver, Heavy | | | 1 | | | | 14 | hr | $ 52.25 | $ 731.50 | |
| | 01 54 33 40 7200 | Truck - Foreman and Crew | | 1 | | | | 168 | hr | $ 13.08 | $ 2,197.44 | |
| **Miscellaneous** | | | | | | | | | | | | |
| Disposal Fee | 02 41 19.23 0950 | | | | | | 64.4 | | ton | $ 90.00 | $ 5,796.00 | |
| Demolished Concrete Handling | | | | | 20.15 | | | | | | | 6 |
| | 01 54 33 20 4760 | Loader - 5-1/4 to 5-3/4 CY 290hp | | 1 | | | | 1 | hr | $ 116.68 | $ 116.68 | 7 |
| | Equipment Operator, Medium Equipment | | Eqmd | 1 | | | | 1 | hr | $ 67.75 | $ 67.75 | |
| | 01 54 33 40 6410 | Toilet, portable chemical | | 1 | | | | 168 | hr | $ 1.60 | $ 268.80 | |
| **Total** | | | | | | | | | | | $ 93,534.64 | |

Reference Information
1 = Concrete rubble disposed of as fill or permanently backfilled inside portals.
2 = Costs base on a full excavation of each of the manhole assemblies and transport of rubble to portal area.
3 = From Nielson Construction services contract with Energy West Mining - Includes 3/4 ton 4x4 truck, metal tool box, acetylend kit, rack for oxygen and acetylene, 1/2" electric drill, 7 1/4 " circular saw, 9" grinder.
4 = Two excavators are used to excavate and remove pipe. One for trenching (productivity = 135ft/day) and one for lifting pipe out of trench onto truck flatbed.
5 = For haul of pipe demolition material to Nielsen's landfill. Distance is approximately 25.5 miles one-way. Time estimate is 2 hours for one round trip.
6 = Rental cost for 5.5 CY loader is used in place of Wagner scoop for transporting and storing crushed concrete in mine.
7 = Based on haul of 1 unit at 30 min round trip or 2 trips/hour.

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# Deer Creek Mine

## Rilda Canyon Portal Facilities: C/015/0018

Reclamation Bond Estimates

Earthwork

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**Summary**
**Earthwork**

| Description | Cost |
|---|---|
| Backfilling and Grading | $25,483 |
| Topsoil | $51,675 |
| Road Rebuild | $14,316 |
| | |
| **Total** | **$91,473** |

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**Earthwork - Subsoil**

| | Equipment Cost/day | Operator's Hourly Wage Rate[A] | Hourly Cost[A] | Number of Men or Eq. | Total Eq. & Lab. Costs | Units | Quantity (BCY) | Quantity (LCY) | Units | Production Rate | Units | Equipment Time | Units | Cost Col G * Col N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Earthwork Summary Rilda Canyon** | | | | | | | | | | | | | | |
| **Backfilling and Grading** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| D11R Semi-U [1] | $ 4,150.00 | $ 67.75 | $ 330.88 | 1 | $ 330.88 | $/HR | | | | | | | | |
| Fill Area #1 | | | | | | | 10791 | 14028 | CY | 437 | LCY/hr | 33.00 | HR | $ 10,919.04 |
| Fill Area #2 | | | | | | | 315.5 | 410 | CY | 2420 | LCY/hr | 1.00 | HR | $ 330.88 |
| Fill Area #4 | | | | | | | 7075 | 9198 | CY | 2535 | LCY/hr | 4.00 | HR | $ 1,323.52 |
| | | | | | | | | | | | | | | |
| Excavator 2.5 cy [2] | $ 1,613.00 | $ 67.75 | $ 269.38 | 1 | $ 269.38 | $/HR | | | | | | | | |
| Cut Area #3 | | | | | | | 1364 | 1773 | CY | 224.1 | LCY/hr | 8.00 | HR | $ 2,155.04 |
| | | | | | | | | | | | | | | |
| Truck Haul to Fill Area #3 [3] | $ 506.00 | $ 52.25 | $ 115.50 | 2 | $ 231.00 | $/HR | (Time of Excavator usage dictates truck/dozer usage) | | | | | 8.00 | HR | $ 1,848.00 |
| D11R Semi-U | $ 4,150.00 | $ 67.75 | $ 330.88 | 1 | $ 330.88 | | | | | | | 8.00 | HR | $ 2,647.04 |
| | | | | | | | | | | | | | | |
| Truck | $ 104.60 | | $ 13.08 | 1 | $ 13.08 | $/HR | | | | | | 33.00 | HR | $ 431.64 |
| CLAB | | | $ 52.70 | 2 | $ 105.40 | $/HR | | | | | | 33.00 | HR | $ 3,478.20 |
| Foreman Average, Outside | | | $ 71.20 | 1 | 71.2 | $/HR | | | | | | 33.00 | HR | $ 2,349.60 |
| | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | **$ 25,482.96** |

[A] RSMeans Heavy Construction Cost Data 2011 - Refer to Wage and Rate Sheet

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**General Information for Earthwork Calculations**

General Productivity Information

Material Weight*

Use 50% rock/50% earth - 2900 LCY/cf, 3850 BCY/cf, LF = 0.75, Swell Factor = 1.3

[1] **Dozer Correction Factors****

| | | |
|---|---|---|
| operator = | 0.75 | |
| material = | 0.9 | |
| slot dozing = | 1.2 | |
| efficiency = | 0.83 | |

Grade***

| | |
|---|---|
| Fill Area #1 - Avg. dist = 285', Elevation difference = 45', grade = +15.9% | 0.65 |
| Fill Area #2 - Avg. dist = 75', Elevation difference = 0, grade = 0% | 0 |
| Fill Area #3 - Avg. dist = 535', Truck/Track-hoe operation | |
| Fill Area #4 = Avg. dist = 110', Elevation difference = 25', grade = -22.7% | 1.45 |

Dozing Production****

Use CAT Model D11R w/Semi-Universal Blade

Uncorrected Dozing Production

| | | | | |
|---|---|---|---|---|
| Area #1 = | 1000 | | Area #1 = | 437 LCY/hr |
| Area #2 = | 3600 | Corrected Dozing Production | Area #2 = | 2420 LCY/hr |
| Area #4 = | 2600 | | Area #4 = | 2535 LCY/hr |

*Refer to Catillpiller Performance Handbook Edition 31, page 28-4
**Refer to Catilipiller Performance Handbook Edition 31, page 1-45
***Refer to Plate 500-6, Rilda Canyon, Reclamation Mass Balance
****Uncorrected production based on the graph in Caterpillar Performance Handbook Edition 31, page 1-43

[2] **Excavator Correction Factors**

Production*

| | |
|---|---|
| efficiency = | 0.83 |
| cycle time = | 20 |
| load factor = | 60% |

Uncorrected Production* Cut Area #3 270 Corrected Production 224.1 LCY/hr

*Refer to Catillpiller Performance Handbook Edition 31, page 5-159

[3] **Truck Haul**

Use Three axle dump, 16 ton , 12cy payload

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## Earthwork - Topsoil

| | Equipment Cost/day | Operator's Hourly Wage Rate* | Hourly Cost* | Number of Men or Eq. | Total Eq. & Lab. Costs | Units | Quantity (BCY) | Quantity (LCY) | Units | Production Rate | Units | Equipment Time | Units | Cost Col G * Col N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Earthwork Summary Rilda Canyon** | | | | | | | | | | | | | | |
| **Topsoil** | | | | | | | 7,862.00 | 10,220.60 | CY | | | | | |
| Excavator 2.5 cy | | $ 67.75 | $ 269.38 | 1 | $ 269.38 | $/HR | | | | 224.1 | LCY/hr | 46 | HR | $ 12,391.48 |
| Truck Haul to topsoiling areas | | $ 52.25 | $ 115.50 | 3 | $ 346.50 | $/HR | | | | | | 46 | HR | $ 15,939.00 |
| Dozer | | $ 67.75 | $ 330.88 | 1 | $ 330.88 | $/HR | | | | | | 46 | HR | $ 15,220.48 |
| Pick Up Truck | | $ 13.08 | | 1 | $ 13.08 | $/HR | | | | | | | | |
| CLAB | | | $ 52.70 | 2 | $ 105.40 | $/HR | | | | | | 46 | HR | $ 4,848.40 |
| Foreman Average, Outside | | | $ 71.20 | 1 | 71.2 | $/HR | | | | | | 46 | HR | 3275.2 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | $ 51,674.56 |

* RSMeans Heavy Construction Cost Data 2011 - Refer to Wage and Rate Sheet

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## County Road Rebuild

| | Equipment Cost/day | Operator's Hourly Wage Rate[A] | Hourly Cost[A] | Number of Men or Eq. | Total Eq. & Lab. Costs | Units | Quantity (BCY) | Quantity (LCY) | Units | Production Rate | Units | Equipment Time | Units | Cost Col G * Col N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Road Rebuild Summary Hilda Canyon** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| **Road Rebuild** | | | | | | | | | | | | | | |
| Grader* | $ 1,303.00 | $ 67.75 | $ 230.63 | 1 | $ 230.63 | $/HR | | | | 120,278 | sqft/hr | 2 | HR | $ 461.26 |
| Front-End Loader** | $ 1,811.00 | $ 67.75 | $ 294.13 | 1 | $ 294.13 | $/HR | 950 | 1,235.00 | | 0.1333 | hr/trip | 22 | HR | $ 6,470.86 |
| Sheepsfoot Vib. Roller*** | $ 1,094.00 | $ 67.75 | $ 204.50 | 1 | $ 204.50 | $/HR | | | | | | 2 | HR | $ 409.00 |
| Smooth Drum Roller**** | $ 498.80 | $ 67.75 | $ 130.10 | 1 | $ 130.10 | | | | | | | 2 | HR | $ 260.20 |
| 5,000 gal H2O truck Diesel***** | $ 1,030.00 | $ 52.25 | $ 181.00 | 1 | $ 181.00 | $/HR | | | | | | 2 | HR | $ 362.00 |
| Pick Up****** | $ 104.60 | | $ 13.08 | 1 | $ 13.08 | $/HR | | | | | | 24 | HR | $ 313.92 |
| CLAB[A] | | | $ 52.70 | 2 | $ 105.40 | $/HR | | | | | | 24 | HR | $ 2,529.60 |
| Surveyor/Grade Setter******* | | | | | $ 1,800.00 | $/Day | | | | 1 | Day | | | $ 1,800.00 |
| Foreman Average, Outside[A] | | | $ 71.20 | 1 | $ 71.20 | $/HR | | | | | | 24 | HR | $ 1,708.80 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| **Total** | | | | | | | | | | | | | | **$ 14,315.64** |

[A] RSMeans Heavy Construction Cost Data 2011 - Refer to Wage and Rate Sheet

[1] **Road Rebuild**

Grader Productivity

*Refer to RSMeans Heavy Construction Cost Data (2011) 01 54 33 1930 pg 479

Area to grade - Sta. 0+00 to Sta. 12+00, road width 28' = 33,600 sq. ft., 8" road base (4 lifts), 2 lifts sub-grade grading = 33,600 x 6 = **201,600 sq. ft.**

Effective blade width = 8.7', allow for 2' overlap

Average Speed** = 1/2 heavy blading and 1/2 finish blading = 4.25 mph

Efficiency = 0.8

= 4.25 x(8.7' - 2') x 5280' x .8 = **120,278 sq. ft./hr**

201,600/120,2 1.7 Hours

Front End Loader Productivity**

**Refer to RSMeans Heavy Construction Cost Data (2011) 01 54 33 4810 pg 481

Job efficiency = 0.83

Bucket Fill Factor = 0.9 (Bucket volume is 8.33 cy) = 7.5

Cycle Time = 8 min/trip

Volume of roadbase to move 950 bcy = 1,235 lcy

1,235 cy/7.5 cy x 0.1333 hr/tr **22 Hours**

| | |
|---|---|
| ***Sheepsfoot Vibratory Roller | Give same time as Grader |
| ****Smooth Drum Roller | Give same time as Grader |
| *****Water Tuck | Give same time as Grader |
| ******Truck | Total cost based on 3 days use |
| *******Surveyor/Grade Setter | Assume 3 man crew can stake road in one day |

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# Deer Creek Mine

## Rilda Canyon Portal Facilities: C/015/0018

Reclamation Bond Estimates

Revegetation

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| Pocking | Equipment Rental (hr) (Includes O & P)[A] | Operator's Hourly Wage Rate A | Material Cost | Labor Hourly Cost [A] | Number | Area (AC) | Quantity | Units | Production Rate | Units | Time | Units | Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| | | | | | | 5.4 | | AC | | | | | |
| Volume | | | | | | | 1836.0 | CY | 340 | CY/AC | | | |
| Excavator, 2 CY | $ 153.00 | $ 67.75 | | | 1 | | | | 180 | CY/HR | 10.2 | HR | $2,252 |
| **Subtotal** | | | | | | | | | | | | | **$ 2,251.65** |
| **Seeding/Planting** | | | | | | | | | | | | | |
| Seed | | | | | | | | | | | | | |
| Sagebrush/Grass Mix* | | | $ 528.50 | $ 52.70 | | 1.5 | 1.67 | lbs | 1 | Acre/HR | 1.5 | | $ 607.55 |
| Pinyon/Juniper Mix* | | | $ 1,163.00 | $ 52.70 | | 4 | 19.4 | lbs | 1 | Acre/HR | 4 | | $ 1,373.80 |
| White Fir/Aspen Mix* | | | $ 335.94 | $ 52.70 | | 1.5 | 16.4 | lbs | 1 | Acre/HR | 1.5 | | $ 414.99 |
| Seedlings | | | | | | | | | | | | | |
| **Subtotal** | | | | | | | | | | | | | **$ 2,396.34** |
| **Mulching** | | | | | | | | | | | | | |
| Hay | | | | | | | | | 0.67 | AC/HR | | | |
| Hay Quantity*** | | | | | | | 2000 | LBS/AC | | | | | $ 540.00 |
| Mulcher, Diesel powered | $ 34.75 | | | | 1 | | | | | | 8 | HR | $ 278.00 |
| Flat Bed Truck | $ 23.75 | $ 50.75 | | | 1 | | | | | | 8 | HR | $ 596.00 |
| CLAB | | | | $ 52.70 | 2 | | | | | | 8 | HR | $ 843.20 |
| Hydromulch | | | | | | | | | 0.67 | AC/HR | | | |
| Truck 4 x 2, 220hp | $ 34.90 | $ 52.25 | | | 1 | | | | | | 8 | HR | $ 697.20 |
| Hydromulcher, 3000 gal | $ 34.75 | $ 67.75 | | | 1 | | | | | | 8 | HR | $ 820.00 |
| CLAB | | | | $ 52.70 | 3 | | | | | | 8 | HR | $ 1,264.80 |
| **Subtotal** | | | | | | | | | | | | | **$ 5,039.20** |
| **Total** | | | | | | | | | | | | | **$ 9,687.19** |

* Seedmix prices based on Stevenson Intermountain Seed Prices quoted in February 2011. See attached.
** Seedling tree prices based on Lone Peak Conservation Nursery (now contracted to High Mountain Nursery) Prices in February 2011 (http://www.highmtnnursery.com/servlet/StoreFront).
*** Cost of Hay is based on local prices of $100/ton (Personal Communication).
[A] RSMeans Heavy Construction Cost Data 2011 - Refer to Wage and Rate Sheet

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| Pinyon-Juniper/Mountain Brush Seed Mixture - 4 Acres | | | | |
|---|---|---|---|---|
| **Common Name** | **Scientific Name** | **Lbs/Acre Equivalent PLS*** | **Price PLS/lb** | **Seed Cost for Acreage** |
| **Grasses** | | | | |
| Bluebunch Wheatgrass | Agropyron spicatum | 2 | $ 5.50 | $ 44.00 |
| Sandberg Bluegrass | Poa secunda | 1 | $ 4.50 | $ 18.00 |
| Great Basin Wild Rye | Leymus cinereus | 2 | $ 5.00 | $ 40.00 |
| Indian Ricegrass | Oryzopsis hymenoides var. Paloma | 1 | $ 9.50 | $ 38.00 |
| Western Wheatgrass | Agropyron smithii var. Rosanna | 3 | $ 2.75 | $ 33.00 |
| **Forbes** | | | | |
| Blueleaf Aster | Aster glaucodes | 0.25 | $ 90.00 | $ 90.00 |
| Blue Flax | Linum lewisii | 0.25 | $ 6.00 | $ 6.00 |
| Louisiana Sage | Artemisia ludoviciana | 0.2 | $ 75.00 | $ 60.00 |
| Northern Sweetvetch | Hedysarum boreale | 1 | $ 55.00 | $ 220.00 |
| Palmer Penstemon | Penstemon palmeri | 0.5 | $ 12.00 | $ 24.00 |
| **Shrubs** | | | | |
| Snowberry | Symphoricarpus oreophilus | 0.5 | $ 44.00 | $ 88.00 |
| Curleaf Mahogany | Cercocarpus ledifolius | 1 | $ 26.00 | $ 104.00 |
| Fourwing Saltbush | Atriplex canescens | 2 | $ 9.75 | $ 78.00 |
| Saskatoon Serviceberry | Amelanchier alnifolia | 1 | $ 42.00 | $ 168.00 |
| True Mountain Mahogany | Cercocarpus montanus | 1 | $ 38.00 | $ 152.00 |
| | | **Subtotal** | | **$ 1,163.00** |

| Sagebrush/Grass Seed Mixture - 1.25 Acres | | | | |
|---|---|---|---|---|
| **Common Name** | **Scientific Name** | **Lbs/Acre Equivalent PLS*** | **Price PLS/lb** | **Seed Cost for Acreage** |
| **Grasses** | | | | |
| Salina Wildrye | Elymus salinus | 2 | $ 35.00 | $ 87.50 |
| Needle and Thread Grass | Stipa comata | 3 | $ 33.00 | $ 123.75 |
| Sandberg Bluegrass | Poa secunda | 2 | $ 4.50 | $ 11.25 |
| Indian Ricegrass | Oryzopsis hymenoides var. Paloma | 3 | $ 9.50 | $ 35.63 |
| Western Wheatgrass | Agropyron smithii var. Rosanna | 2 | $ 2.75 | $ 6.88 |
| **Forbes** | | | | |
| Blueleaf Aster | Aster glaucodes | 0.5 | $ 90.00 | $ 56.25 |
| Blue Flax | Linum lewisii | 1 | $ 6.00 | $ 7.50 |
| Louisiana Sage | Artemisia ludoviciana | 0.2 | $ 75.00 | $ 18.75 |
| Northern Sweetvetch | Hedysarum boreale | 1 | $ 55.00 | $ 68.75 |
| Palmer Penstemon | Penstemon palmeri | 0.5 | $ 12.00 | $ 7.50 |
| **Shrubs** | | | | |
| Bitterbrush | Purshia tridentate | 1 | $ 11.50 | $ 14.38 |
| Fourwing Saltbush | Atriplex canescens | 2 | $ 9.75 | $ 24.38 |
| Snowberry | Symphoricarpos oreophilus | 1.2 | $ 44.00 | $ 66.00 |
| | | **Subtotal** | | **$ 528.50** |

| White Fir/Aspen Seed Mixture - 1.25 Acres | | | | |
|---|---|---|---|---|
| **Common Name** | **Scientific Name** | **Lbs/Acre Equivalent PLS*** | **Price PLS/lb** | **Seed Cost for Acreage** |
| **Grasses** | | | | |
| Bluebunch Wheatgrass | Agropyron spicatum | 1 | $ 5.50 | $ 6.88 |
| Indian Ricegrass | Oryzopisi hymenoides var. Paloma | 2 | $ 9.50 | $ 23.75 |
| Western Wheatgrass | Agropyron smithii var. Rosanna | 3 | $ 2.75 | $ 10.31 |
| Kentucky Bluegrass | Poa pretenses | 1 | $ 2.00 | $ 2.50 |
| Mountain Brome | Bromus marginatus | 2 | $ 1.75 | $ 4.38 |
| Slender Wheatgrass | Elymus trachycaulus ssp. trachycaulus | 2 | $ 1.75 | $ 4.38 |
| **Forbs** | | | | |
| Louisiana Sage | Artemisia ludoviciana | 0.2 | $ 75.00 | $ 18.75 |
| Northern Sweetvetch | Hedysarum boreale | 1 | $ 55.00 | $ 68.75 |
| Pacific Aster | Aster chilensis | 0.2 | $ 90.00 | $ 22.50 |
| Rocky Mountain Penstemon | Penstemon strictus | 1 | $ 18.00 | $ 22.50 |
| Silky Lupine | Lupinus sericeus | 1 | $ 44.00 | $ 55.00 |
| **Shrubs** | | | | |
| Snowberry | Symphoricarpos oreophilus | 1 | $ 44.00 | $ 55.00 |
| Saskatoon Serviceberry | Amelanchier alnifolia | 0.5 | $ 42.00 | $ 26.25 |
| Skunkbush Sumac | Rhus trilobata | 0.5 | $ 24.00 | $ 15.00 |
| | | **Subtotal** | | **$ 335.94** |
| | | **Total** | | **$ 2,027.44** |

Note: Total seeding cost includes an area of 6.5 acres. The remaining area consists of the reconstructed Emery County road.

* Seedmix prices based on Stevenson Intermountain Seed Prices quoted in February 2011. See attached.

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Volume 3

Appendix XII

Remove

Volume 3

Appendix XIII

Remove

# Deer Creek Permit Boundary Description

| T17S, R7E, SLB&M Emery County, UT Cont. | | |
|---|---|---|
| | S½S½SE¼ | 40.00 |
| Sec 18: (ALL) | Lots 1 and 2 | 45.87 |
| | Lots 3 and 4 | 47.10 |
| | NE¼ | 160.00 |
| | SE¼ | 160.00 |
| Sec 19: (ALL) | Lots 1 - 4 | 92.67 |
| | E½ | 320.00 |
| Sec 20: (ALL) | W½ | 320.00 |
| | W½E½ | 160.00 |
| | E½E½ | 160.00 |
| Sec 21: | NW¼ | 160.00 |
| | SW¼ | 160.00 |
| | W½W½W½NE¼ | 20.00 |
| | W½W½NW¼SE¼ | 10.00 |
| | S½SE¼ | 80.00 |
| Sec 22: | E½NW¼ | 80.00 |
| | E½W½NW¼ | 40.00 |
| | E½SW¼ | 80.00 |
| | E½NW¼SW¼ | 20.00 |
| | SW¼SW¼ | 40.00 |
| | W½SE¼ | 80.00 |
| Sec 27: | N½NW¼ | 80.00 |
| | NW¼NE¼ | 40.00 |
| Sec 28: | N½NE¼ | 80.00 |
| | E½NE¼NW¼ | 20.00 |
| Sec 29: | NW¼NE¼ | 40.00 |
| | N½NW¼ | 80.00 |
| Sec 30: | Lots 1, 5, 6 | 63.00 |
| | N½NE¼ | 80.00 |
| | SW¼NE¼ | 40.00 |
| | NW¼SE¼ | 40.00 |
| | **Total for Township** | **7,356.01** |

**Total Permit Acres** **20,276.18**

Refer to Surface and Subsurface ownership maps in Volume 4.

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## Deer Creek Permit Boundary Description

The Deer Creek Mine permit covers an area approximately 20,276.18 acres. The total disturbed area at the mine is currently 59.71 acres.

**Disturbed Area Reconciliation Table**

| Type Area | Area Name | Reclamation Completion Date | Disturbed Acreage | Phase I Bond Release Date | Phase II Bond Release Date | Phase III Bond Release Date |
|---|---|---|---|---|---|---|
| Mine Site | Deer Creek Main Mine | N/A | 50.08 | | | |
| Mine Site | Rilda Canyon Left Fork Fan Facilities | N/A | 2.33 | | | |
| Mine Site | Rilda Canyon Portal/Fan Facilities | N/A | 7.28 | | | |
| Remote Portal | 9th East Meetinghouse Portals | N/A | 0.02 | | | |
| Remote Portal | 9th East Grimes Wash Portals | Dec-99 | 0.00 | 7/13/2007 | 11/8/2011 | 11/8/2011 |
| Waste Rock Site* | Deer Creek Waste Rock Site | N/A | 0.00 | | | |
| **Total** | | | **59.71** | | | |

* The Deer Creek Waste Rock Site was transferred to Castle Valley Mining LLC in a purchase agreement on November 20, 2018.

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**Energy West Mining Company**
**General Environmental Permits Issued to PacifiCorp**
**Emery County, Utah**

| Item No. | Air Quality | Date Issued | Description | Affiliated Mine | Term* Years | Termination Date | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | DAQE-694-95 | 8/9/1995 | Air Quality permit for mine site | Cottonwood | LOM | none | Mine site is in cessation. |
| 2 | DAQE-835-91 | 12/16/1991 | Air quality permit for waste rock site | Trail Mountain | LOM | none | Mine site is in cessation. |
| 3 | DAQE-AN0239033-02 | 6/14/2002 | Air quality permit for mine site | Deer Creek | LOM | none | Mine site currently active. Baghouse located at tipple. |
| 4 | DAQE-694-95 | 8/9/1995 | Air Quality permit for mine site | Trail Mountain | LOM | none | Mine site is in cessation. |
| **Item No.** | **EPA ID** | **Date Issued** | **Description** | **Affiliated Mine** | **Term Years** | **Termination Date** | **Remarks** |
| 1 | UTD988078440 | 3/24/1993 | Waste disposal permit | Cottonwood | LOM | none | Used for non-hazardous and hazardous waste disposal. Mine site is in cessation |
| 2 | UTD988078432 | 3/24/1993 | Waste disposal permit | Deer Creek | LOM | none | Used for non-hazardous and hazardous waste disposal. |
| 3 | UTD980718340 | 11/12/1992 | Waste disposal permit | Trail Mountain | LOM | none | Used for non-hazardous and hazardous waste disposal. Mine site is in cessation |
| **Item No.** | **MSHA #** | **Date Issued** | **Description** | **Affiliated Mine** | **Term Years** | **Termination Date** | **Remarks** |
| 1 | 42-01211 | 5/5/1996 | Required permit number for operation. | Cottonwood | LOM | none | Covers all areas of the mine including waste rock site. |
| 2 | 42-00121 | 3/19/1973 | Required permit number for operation. | Deer Creek | LOM | none | Covers all areas of the mine. |
| 3 | 42-01211 | 3/25/1975 | Required permit number for operation. | Trail Mountain | LOM | none | Covers all areas of the mine site. |
| **Item No.** | **UPDES Permit** | **Date Issued** | **Description** | **Affiliated Mine** | **Term Years** | **Termination Date** | **Remarks** |
| 1 | UT-0022896 | 4/14/2014 | -001 Sediment Pond - 002 Mine Discharge | Cottonwood | 5 | 3/31/2019 | Discharge permit into Grimes Wash |
| 2 | UT-0023604 | 12/1/2007 | -001 Sediment Pond - 002 Mine Discharge | Deer Creek | 5 | 11/30/2012 | Discharge permit into Deer Creek. |
| 3 | UT-0023728 | 4/14/2014 | -001 Sediment Pond - 002 Mine Discharge - 003 Waste Rock Site | Trail Mountain | 5 | 3/31/2019 | Discharge permit into Cottonwood Cyn Ck. 003 discharges into an ephemeral drainage near Grimes Wash |

* LOM = Life of Mine

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