Cameco
Resources

POWER RESOURCES, INC.
dba/Cameco Resources

HIGHLAND URANIUM PROJECT

WDEQ PERMIT #603

ANNUAL REPORT

June 1, 2010 through April 30, 2011

Submitted
June 30, 2011

Cameco

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June 30, 2011

Mr. Lowell Spackman, District Supervisor
Land Quality Division
Wyoming Department of Environmental Quality
Herschler Building
122 W. 25th Street
Cheyenne, WY 82002

HAND DELIVERED

RE: Permit to Mine 603, Cameco Resources, Smith Ranch-Highland Uranium Project, 2010-2011 Annual Report

Dear Mr. Spackman:

Enclosed please find two (2) copies of Power Resources, Inc. d/b/a/ Cameco Resources (CR) 2010-2011 Annual Report for permit 603, Smith Ranch-Highland Uranium Project. The report addresses applicable reporting requirements of the approved permit application, WDEQ Annual Report Form, and W.S. 35-11-411.

In the WDEQ-LQD 2009-2010 Annual Report Review received March 11, 2011, several comments requested information be added to this 2010-2011 Annual Report. Cameco has incorporated the information as it relates to those comments into the report. Attached is a list of the review comments requesting information for the 2010-2011 Annual Report for Permit 603 Cameco to assist WDEQ-LQD in determining response through this review of the Annual Report.

If you have questions, please call Dawn Kolkman at (307) 358-6541 ext. 435.

Sincerely,

Tom Cannon
General Manager Operations

LTC/dk

Attachment: Annual Report binders (2 copies)

cc: D. Mandeville, USNRC (2 copies) T. Foertsch, Casper Field Office, BLM (1 copy)
File HUP 4.3.3.2

Permit 603, Highland Uranium Project, Cameco Resources
2009-2010 Annual Report Review Comments

Introduction

WDEQ-LQD provided review and comment to the 2009-2010 Annual Report. Several comments request that the information be provided in the next Annual Report period. Cameco has incorporated the information into the Annual Report to provide response to those items. The following are responses address only those comments requesting information in the 2010-2011 (Comments 1, 3, 8, 9, 11, and 26)

Comments

1. The lengend on the maps contain numerous errors:
    a. The plates show a large number of linear features that are shown on the legend as paved roads. These features appear to be stream channels. Please correct the legend to show the proper symbol.
    b. Plat 1-7(HUP) and others show a heavy purple line, which is shown in the legend as proposed production. This feature does not appear to be proposed production. Please properly identify this line.
    c. The connecting road on the plates is shown as two gravel roads and a paved road. Please properly identify the connecting road.
    d. Page 19 of the text states than an extension is planned for Mine Unit J during this period. The extension area is not shown on the plates. Please show the extension area on Plate 1 and Plate 1-7(HU).

    Please provide the map changes in the 2011 Annual Report. (SI)

Cameco Response: The changes listed above have been changed in the maps for the 2011 Annual Report.

3. Soil water sampling. The sampling technique is incorrect. A better technique would be to add distilled water, let stand for several days, pump out about a third of the water and then take the sample. Please correct the sampling technique in the 2011 Annual Report. (SI)

Cameco Response: Sampling for the 2011 Annual Report will not occur until after the end of the 2010-2011 report period. The lysimeters are permitted through the WDEQ-LQD, and Cameco will be discussing the need potentially replace the lysimeters at Irrigator 2. The sampling technique employed was originally established in the WQD permit; however yielded little result. Cameco contracted an outside consultant to assist with the sampling during the report did not appear effective. The consultants had prepared the sampling technique according to lysimeter manufacturer requirements.

8. Page 9. The new deep disposal well (SRHUP #9) is discussed on this page. However, the Morton 1-20 and Vollman are not discussed. Please include a discussion of the Morton 1-20 and Vollman deep

disposal wells in this section of the report as well. The information may be included in the 2011 Annual Report. (SI)

Cameco Response: The permits and reporting requirements for the deep disposal wells are through the WDEQ-WQD and additional information regarding the wells may be located in those permits. Cameco included a discussion of the three deep disposal wells, SRHUP #9, Morton 1-20 and Vollman in Section 3(h) of the Annual Report.

9. Page 15. Wellfield A Long Term Stability Monitoring. This section does not discuss the selenium values in Well MP-4. The geochemical model predicted substantial attenuation within the wellfield at Well MP-4 within the first 27 years. The attenuation prediction at the monitor well ring depends on attenuation of the selenium and uranium concentrations in Well MP-4. The text suggests there may be a higher level of oxidized water in the system than was used in the geochemical model. The Eh field study performed by Lewis Water Consultants and LQD in January 2003 did not indicate the presence of higher levels of oxidized water in the wellfield. Please review the text and make appropriate corrections in the 2011 Annual Report. (SI)

Cameco Response: The text in the 2010 Annual Report that suggested a higher level of oxidized water in the system was not based on updated Eh field readings(or other measures of oxidation-reduction potential) and therefore had no technical justification. This test has been corrected in the 2011 Annual Report.

11. Page 30. The text for item 10 states that the LQD Abandoned Drill Hole Program Supervisor will receive the abandoned drill hole reports. The LQD has not had an Abandoned Drill Hole Program Supervisor for many years. Please correct the text in the 2011 Annual Report. (SI)

Cameco Response: The Annual Report Form issued by WDEQ-LQD contains the quote using the Abandoned Drill Hole Program Supervisor. Cameco has merely used the form format provided. Cameco has removed that statement in this Annual Report; however, WDEQ-LQD should consider revising their document for correct document control.

26. Plates. Please add the header houses with associated number for the wellfields to the maps in the 2011 Annual Report. (PCR)

Cameco Response: The header houses have been added to the wellfields in the site maps provided for the 2011 Annual Report.

Cameco Resources
Highland Uranium Project
2010-2011 Annual Report
Permit 603

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B Annual Monitoring Report for Boner Bros. Partnership
C 2011-12 Reclamation Surety Estimate Revision
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REQUIRED ANNUAL REPORT INFORMATION FOR NON-COAL LARGE MINING OPERATIONS

Land Quality Division, Districts I, II & III

RE: Wyoming Environmental Quality as Amended §35-11-411, Annual Report

1. Introduction

(a) Name of Permittee

Power Resources Inc. d/b/a Cameco Resources (Cameco)

(b) Address and Phone Number

P.O. Box 1210
Glenrock, Wyoming 82637
(307) 358-6541

(c) Mining Permit Number

Wyoming Permit to Mine No. 603

(d) Date of Permit Issuance and Amendments

The Permit was issued June 30, 1987. The permit has been revised as follows:

Change No. 1 (Incidental Boundary Revision): April 29, 1988

Change No. 2 (Section 21 Monitor Well Relocation): July 25, 1988

Change No. 3 (Section 14 Amendment): June 27, 1989

Change No. 4 (WDEQ/LQD Approvals Prior to Injection): September 8, 1989

Change No. 5 (Permit Transfer from EMC to PRI): January 9, 1990

Change No. 6 (Incidental Boundary Revision - Pre-mining Construction Activities for the E-Wellfield): May 24, 1991

Change No. 7 (West Highland Amendment, Permit No. 603-A2): October 15, 1991

Change No. 8 (E-Wellfield Hydrologic Test, Authorization for Production Activities in E-Wellfield): November 8, 1991

Change No. 9 (Monitoring Frequency Language Clarification): May 27, 1992

Change No. 10 (Section 14 Haulageway Addition to C-Wellfield Production Zone): November 3, 1992

Change No. 11 (Proposed F-Wellfield Monitoring Plan): November 3, 1992

Change No. 12 (Revised Monitoring Well Density): February 8, 1993

Change No. 13 (Alternate Well Completion Technique): March 17, 1993

Change No. 14 (Contract Drying of Yellowcake Slurry): March 30, 1993

Change No. 15 (Wellfield Instrumentation, Injection Pressure Monitoring): April 5, 1993

Change No. 16 (Reduced Baseline Water Quality Sampling Requirements): February 9, 1994

Change No. 17 (Revised Monitor Well Sampling, One Casing Volume): February 18, 1994

Change No. 18 (F-Wellfield Hydrology Test Data): March 1, 1994

Change No. 19 (F-Wellfield Baseline Water Quality Data, UCL's): March 1, 1994

Change No. 20 (Initial F-Wellfield Monitoring): March 1, 1994

Change No. 21 (Conditional Approval of Satellite No. 2 Wastewater Land Application Facility): March 11, 1994

Change No. 22 (Approval of Responses for F-Wellfield and Satellite No.2 Wastewater Land Application Facility): April 18, 1994

Change No. 23 (F-Wellfield Revised Monitoring Plan): September 29, 1994

Change No. 24 (Satellite No. 2 Wastewater Land Application Facility): December 13, 1994

Change No. 25 (Satellite No. 1 Purge Storage Reservoir Rework Revision Package): April 17, 1995

Change No. 26 (Satellite No. 1 Irrigation Area 1B): May 26, 1995

Change No. 27 (F-Wellfield Revised Monitoring Plan): August 2, 1995

Change No. 28 (Satellite No. 2 Purge Storage Reservoir Berm Designs): August 23, 1995

Change No. 29 (80 Acre Amendment, Satellite No. 1 PSR Corrective Action Plan): October 6, 1995

Change No. 30 (F-Wellfield Revised Monitoring Plan): December 13, 1995

Change No. 31 (Drilling Fluid Storage Cells): December 30, 1996

Change No. 32 (Revised Mining and Reclamation Schedule): April 28, 1997

Change No. 33 (Permit Transfer): July 15, 1997

Change No. 34 (Restoration Wells, Topsoil Management, and Interceptor Trench Design): January 14, 1998

Change No. 35 (Modification to Resistivity Surveying): March 16, 1998

Change No. 36 (Directional Drilling): March 17, 1998

Change No. 37 (Irrigation Fluid Monitoring): May 28, 1998

Change No. 38 (FMU-5 and FMU-6 Monitoring): July 31, 1998

Change No. 39 (F-11 Restoration Methodology Investigation): August 28, 1998

Change No. 40 (Permit Reorganization): October 19, 1998

Change No. 41 (Operations at the H-Wellfield): December 21, 1998

Change No. 42 (Groundwater Treatment, CO2 Removal): February 4, 1999

Change No. 43 (Modification to Resistivity Surveying): May 5, 1999

Change No. 44 (Revised UCLs for B-Wellfield): August 31, 1999

Change No. 45 (Irrigation for Well EPI-149 Casing Break): September 13, 1999

Change No. 46 (Well Maintenance Procedures): October 25, 1999

Change No. 47 (Option to Use SDR-17 PVC Well Casing): November 12, 1999

Change No. 48 (Change of Mechanical Integrity Testing Method): December 14, 1999

Change No. 49 (Operations at the D-Extension Wellfield): February 14, 2001

Change No. 50 (Groundwater Monitoring During Restoration): August 13, 2001

Change No. 51 (Bioremediation Test): August 22, 2001

Change No. 52 (Upper Control Limits for Well DMU-6): November 8, 2001

Change No. 53 (Upper Control Limits, Target Restoration Values, and Pump Test for I-Wellfield): May 3, 2004

Change No. 54 (Bioremediation as a Method to Restore Groundwater): May 4, 2004

Change No. 55 (A-Wellfield Long Term Monitoring Plan): June 7, 2004

Change No. 56 (Mine Unit J Boundary Amendment): March 29, 2006

Change No. 57 (Incidental Boundary Revision): May 8, 2006

Change No. 58 (UCL's Mine Unit-J Monitor Wells): May 10, 2006

Change No. 59 (Mining Sequence Mine Unit-J): May 26, 2006

Change No. 60 (Nutrient Change-Bioremediation): August 24, 2006

Change No. 61 (Approved Permit Transfer): November 18, 2008

Change No. 62 (Revision to Restoration Plan): December 31, 2008

Change No. 63 (Selenium Treatment Plant): February 19, 2009

Change No. 64 (Mine Unit-C Restoration Plan): April 3, 2009

Change No. 65 (Reclamation Plan Excursion Reporting): June 15, 2009

Change No. 66 (Correction to Restoration Schedule): July 30, 2009

Change No. 67 (Revision to Seed Mix): November 19, 2009

Change No. 68 (New Restoration Well Installation – Mine Unit D): February 3, 2010

Change No. 69 (Selenium Sampling Plan for Irrigation Use, Concurrence to Use Irrigator 2): April 26, 2010

Change No. 70 (Approval of NSR, Mine Unit J Well UCL Monitoring Revision): May 17, 2010

Change No. 71 (Spill Maintenance, Prevention and Reporting Plan): June 14, 2010

Change No. 72 (Monitor Well Sampling/Reporting Plan): July 8, 2010

Change No. 73 (Mine Unit E, New Restoration Wells): July 12, 2010

Change No. 74 (Approval for Surety Estimate for Permit 603): August 30, 2010

Change No. 75 (Approval of Non-Significant Revision, Mine Unit E, Changes to New Restoration Wells): March 11, 2011

(e) Mineral(s) Mined

Uranium (U_3O_8)

(f) State and Federal Mineral Lease Numbers

State Lease Numbers

0-40077 0-40211

0-27233B 0-27233A

Federal Claims

Federal Claims within the permit area are shown on the location map (Map 2) within Volume 1, Appendix A of the approved permit application.

2. Reporting Period

June 1, 2010 through April 30, 2011.

3. Mining Activities

There are a total of eight maps provided for the review of this 2010-2011 Annual Report. Plate 1 is the site map and an additional seven expanded maps, Plates 1-1 through 1-8(HUP). At a minimum, these maps illustrate delineation drill hole locations, areas of planned disturbance, new facilities, wellfield releases, excursion locations, roads and pipelines, and areas where surface disturbance occurred during the report period.

Cameco has also provided two additional types of maps for the Annual Report. A set of maps showing affected acreage were created to illustrate interim reclamation of disturbed wellfields, etc. by year. Plate 2 is the site map with affected acreage and an additional two expanded maps, Plates 2-1 and 2-2 have been included. In addition, seven maps, Plates 3-1 through 3-7, showing abandoned drill hole locations has been provided. The abandoned drill hole map show enlarged areas where drill holes have been abandoned

(a) Tabulate acreage disturbed (by pits, roads, facilities, etc.) during the report period and illustrate on map

Refer to Table 3-1, Acreage Affected Summary for a tabulated list of areas disturbed during the report period. Plate 2 and expanded Plates 2-1 and 2-2 illustrate affected acreage by year within the permit area.

(b) Tabulate acreage affected to date by years and illustrate on map

Refer to Table 3-1, Acreage Affected Summary, for a tabulated list of areas that have been disturbed. Plate 2 and expanded Plates 2-1 and 2-2 illustrate affected acreage by year within the permit area.

(c) Tabulate all topsoil stockpile volumes, date of stockpiling and illustrate on map
Table 3-2 Topsoil Stockpile Summary represents a listing of long-term topsoil piles within the permit area.

(d) Tabulate all out-of-pit spoil volumes, dates of placement and illustrate on map

This item pertains to conventional open-pit mining operations. There are no out-of-pit spoil volumes to be reported due to the nature of in-situ recovery (ISR) mining.

(e) Tabulate quantity of commodity mined by years

Refer to Table 3-3, Uranium Production by Years, for quantity of commodity mined by year. In the 2009-2010 Annual Report adjustments were made to standardize reporting as, uranium production reported for years 2006, 2007, and 2008 did not accurately reflect the same information as reported in the Annual Report for Permit 633.

(f) Describe any new construction during the report period and illustrate on map; include:

1. **Shop facilities, erection sites**
   No new shops, facilities or erection sites were constructed during the report period.

2. **Roads**
   No new roads were constructed during the report period.

3. **Culverts**
   Two new culverts were along the road to Satellite 3.

4. **Diversion ditches, collector ditches, interceptor ditches, etc.**
   No new ditches were created during the report period.

5. **Sediment ponds, containment ponds**
   No new ponds were constructed during the report period.

6. **Monitoring sites**
   A meteorological station was installed near the potable water taken located behind the Central Processing Plant in the 633 permit area. The new meteorological station was operational in November 2010. Refer to Section 7c for data obtained from this installation.

(g) Describe any environmental problem areas, the proposed plan for mitigating them and illustrate areas on map; including:

1. **Pit stability problems**

This item pertains to slope stability issues that occur in conventional open-pit mining operations. Due to the nature of ISR mining, there is no open pit and therefore no slope stability issues.

2. Subsidence

This item pertains to subsidence issues that occur in conventional underground mining operations. Due to the nature of ISR mining, there is no underground mining and, as a result, no subsidence.

3. Accidental water discharge, dam failure, etc.

There were no reportable spills in the permit area during the report period.

4. Slumping or sliding

This item pertains to slumping or sliding that could occur in conventional open-pit or underground mining operations. Due to the nature of ISR mining, there is no slumping or sliding to be reported.

5. Revegetation problem areas

There were no revegation problem areas during the report period.

(h) Other Mining Activities

Highland Central Processing Facility

Following Cameco's acquisition of the Smith Ranch Project on July 22, 2002, the Central Processing Facility (CPF) at Highland was placed on standby status during the 4th Quarter 2002 as uranium (yellowcake) processing activities for the Highland Uranium Project were relocated to the Smith Ranch Central Processing Plant. Cameco is evaluating plans to renovate the Highland Central Processing Facility into a resin transfer system including a dryer facility. A description of the 2011-2012 plans are provided in Section 5. *2011-2012 Mining Plans* of this Annual Report.

Injection/Production Flows

Pursuant to Chapter 11 Section 15(c)(iii), the total quantity of mining fluid injected and extracted for each wellfield area is reported. In accordance with Chapter 11 Section 1, a wellfield area may be all or a portion of the entire area proposed for the injection and production of recovery fluid. Therefore, as injection and production fluids are circulated from and to the satellites, the flows within these facilities are tracked. Flows reporting to the CPP and Satellites 2 and 3 are shown on Table 3-5.

Satellite No. 1

Satellite No. 1 was historically used for the processing of production and restoration fluids from Mine Units A and B. With the completion of restoration activities at Mine Units A and B,

Satellite No. 1 has been shut down since June 29, 2004. Final decommissioning and reclamation activities associated with Satellite No. 1 will commence upon NRC approval of groundwater restoration in Mine Unit B.

Radium Ponds

During August 2002, the use of the Radium Settling Basins at Satellite No. 1 was discontinued due to escalating maintenance problems with pumps and piping and monitoring data which showed that the settling of residual solids after the filter presses was not needed to meet the NRC's Effluent Concentration Limits. Decommissioning of the Radium Settling Basins commenced in 2004, which included disposal of geotextile and clay liners at a NRC licensed facility.

On July 22, 2010 a plan was presented to WDEQ/LQD. The plan included project survey control, soil sampling field work, counting of the samples, QC of the counting effort and how the sampling results would be used to determine the remediation design. On September 27, 2010 WDEQ/LQD accepted the plan.

A reproducible 30 feet square sampling grid was installed prior to the start of soil sampling. In mid September 2010 the soil sampling was started, 377 soil samples were collected at the site. During this work the 10 percent of the samples were split for counting QC purposes. The QC samples were analyzed for total uranium, thorium-230, radium-226, and lead-210. Currently, the samples are in storage waiting counting for radium-226.

Satellite No. 2

Satellite No. 2 processes production fluid from a portion of the permit area including Mine Units H and I, and restoration fluids from Mine Units C, D and E. Processing Mine Unit D restoration fluids began in January 2010. During the period June 1, 2010 through April 30, 2011, 2,456 Acre-feet (AF) (800,320,450 gal) of production fluids were pumped through Satellite No. 2, and 2,382 AF (776,319,195 gal) of injection fluids were pumped from Satellite No. 2 to the wellfields. Injection fluid was withdrawn as "bleed" from the production zone aquifers. A production bleed is maintained by treating a portion of the injection fluid and disposing of it at the Satellite No. 2 Land Application Facility (Irrigator No. 2). The total bleed during this period was 74 AF (34,001,255 gal), which represents 3.0% of the total production fluid volume. In addition to the production bleed, restoration fluids associated with groundwater sweep and/or reverse osmosis (RO) activities in Mine Units C and D were treated at Satellite No. 2, stored in PSR-2 and applied through land application via Irrigator No. 2. The application of these fluids at Irrigator No. 2 was shut down for the winter. From August 23, 2010 to August 31, 2010, RO brine was sent to Deep Disposal Well Morton I-20.

In accordance with the Settlement Agreement for NOV, Docket No. 4231-08, Cameco had submitted a capital improvement plan in 2008 to install a selenium treatment facility which was approved by WDEQ/LQD as Change No. 63 to the permit. The Selenium Treatment Facility was completed in the fall of 2009 and operates through the report period.

Cameco was authorized to resume land application of water from PSR-2 to Irrigator No. 2 in correspondence from WDEQ/LQD dated April 21, 2010 under TFN 5 4/128. The land application occurred during the summer months of 2010.

Satellite No. 3

Satellite No. 3 currently processes production fluid from Mine Units J and K (Mine Unit K is permitted under Permit No. 633) and excursion control bleed from Mine Unit F. During the period June 1, 2010 through April 30, 2011, 4,694 AF (1,529,449,587 gal) of production fluids were pumped through Satellite No. 3 and 4,643 AF (1,512,807,920 gal) of injection fluids were pumped from Satellite No. 3 to the wellfields. A production bleed is maintained by treating a portion of the injection fluid and disposing of it at Irrigator No. 2. The total bleed during this period was 51 AF (16,641,667 gal), which represents 1.1% of the total production fluid volume.

Wellfields

Mine Units C, D, D-Extension and E were in various phases of restoration during the report period. For additional information on activities associated with these mine units during the report period, see Section 4g *Groundwater Restoration Activities* below. Mine Units H, I and J were in production during the report period and are anticipated to be operational during the next report period. Mine Unit F, as discussed with WDEQ-LQD, is also expected to resume production during the next report period.

Deep Disposal Wells

One deep disposal well, SRHUP#9, was installed in the permit area, as reported in the 2009-2010 Annual Report. Two existing deep disposal wells, Morton I-20 and Vollman 33-27 were worked over during the report period. The location of the deep disposal wells are illustrated on Plate 1. The wells are regulated through the UIC program with WDEQ-WQD under Permit 09-054. Monitoring and reporting of the deep disposal wells is completed through quarterly and annual reports to the WDEQ-WQD.

Deep disposal well SRHUP#9 was installed within the Mine Unit E area. Authorization to inject was received from the WDEQ-WQD in correspondence dated November, 10, 2010 which includes the information regarding the construction and testing requirements for the well. SRHUP #9 is permitted to discharge into the Teckla, Teapot, and Parkman aquifers through perforation in the deep interval of 8,030-9460 feet. The Lewis Shale forms the upper confining layer above the Teapot Sandstone and Cody Shale forms the lower confining layer below the Parkman Sandstone. For operation of SRHUP # 6, the maximum instantaneous injection rate is permitted by the WDEQ-WQD at 3,600 bbl/day and limiting surface injection pressure of 1,225 psig.

Deep disposal well Morton I-20 is located east of Mine Unit H. Authorization to inject was received from WDEQ-WQD in correspondence dated March 9, 2011 which includes the information regarding the construction and testing requirements for the well. Morton I-20is permitted to discharge into the Teckla, Teapot and Parkman aquifers through perforation in the deep interval of 8,030-9460 feet. The Lewis Shale forms the upper confining layer above the

Teapot Sandstone and the Cody Shale forms the lower confining layer below the Parkman Sandstone. For operation of Morton I-20, the maximum instantaneous injection rate is permitted by the WDEQ-WQD at 3,600 bbl/day and a limiting surface injection pressure of 951 psig.

Deep disposal well Vollman 33-27 is located Southeast of Satellite 3 and Mine Unit F. Authorization to inject was received from the WDEQ-WDQ in correspondence dated March 9, 2011 which includes the information regarding the construction and testing requirements for the well. Vollman 33-27 is permitted to discharge into the Teckla, Teapot and Parkman aquifers through perforation in the deep interval of 8,030-9460 feet. The Lewis Shale forms the upper confining layer above the Teapot Sandstone and the Cody Shale forms the lower confining layer below the Parkman Sandstone. For operation of Morton I-20, the maximum instantaneous injection rate is permitted by the WDEQ-WQD at 3,600 bbl/day and a limiting surface injection pressure of 951 psig.

4. Reclamation

(a) Tabulate the acreage completed during the report period and illustrate on map. Distinguish Between:

1. Backfilled, graded, and contoured. Including date of approval for coal permits.
2. Topsoiled.
3. Seeded.
4. Reseeded.
5. Indicate where special construction or reclamation practices were used such as for sand bodies or alluvial material.

Surface reclamation activities are represented in Table 4-1. Interim reclamation means the re-grading, contouring, and re-vegetation, as may be applicable, on disturbed areas that are associated with on-going or active mine unit construction and/or wellfield development. These interim activities are to be distinguished from "final" reclamation activities that will commence following completion and approval of groundwater restoration in the mine units.

(b) Submit a map showing the reconstructed contours. The map must be the same scale and contour interval as the PMT map in the approved permit.

This pertains to conventional open-pit mining operations and is not applicable during the report period.

(c) Tabulate acreage reclaimed (seeded with permanent seed mix) to date by years and illustrate on map.

Information on reclaimed acreage is shown on Table 4-1.

(d) Describe reclamation procedures used during the report period:

1. Depth of topsoil applied. Indicate whether from stockpile or directly applied.
2. Type of seed used for seeding during the report period.

3. **Dates of seeding during the report period.**
4. **Seeding procedures used.**
5. **Rate of seed application.**
6. **Type and rate of any fertilizer applied.**
7. **Type and rate of mulch applied.**
8. **Rate of irrigation water applied.**
9. **Any deviation to the approved reclamation plan including, in addition to the items above, changes to the contour or location of post mining features.**

See Table 4-1. Top soil is not applied until final reclamation which has not yet taken place. All top soil applications have been interim stabilization.

(e) Describe results of previous revegetation efforts; include:

1. **Types of seed that have germinated and are growing**

2. **Types of seed that are not growing successfully**

   All seed types utilized for re-vegetation have been germinating and growing.

3. **Areas experiencing problems with weeds and weed types**

   Noxious weed control was completed through contracted parties to provide spray application utilizing herbicide chemicals. The chemicals used include Escort XP, Milestone Specialty, and Tordon 22K and LI-700 for a surfactant. Primary weeds found included Canada Thistle (Cirsium Arvense L.), Musk Thistle (Carduss nutans L.) with a small population of Scotch Thistle (Onopordrum Acanthium L.) Buffalo Bur (Solanum Rostratum) was also found. Spraying occurred in the vicinity of Satellite 2 and 3.

4. **Significant erosional problems**

   No significant erosional concerns were noted within the permit area, during the report period.

5. **Areas of unsuitable overburden on the surface**

   No unsuitable overburden concerns were encountered within the permit area during the report period.

6. **Procedures used or proposed to correct these problems**

   Not applicable this report period.

(f) Summarize the actual reclamation costs incurred during the report period. Costs should be itemized for each operation (i.e. grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e. spoil, haul roads, facilities removal, etc.) on a per-acre basis.

As previously noted in item 4(a) no final surface reclamation occurred during the report period.

g) Groundwater Restoration Activities:

Mine Unit A

WDEQ/LQD approved Mine Unit A restoration plan as Change No. 55; in correspondence dated June 7, 2004. The NRC approved the Mine Unit A groundwater restoration in correspondence dated June 19, 2005. Therefore, in accordance with the approved reclamation plan, CR began plugging the Mine Unit A wells in March 2005 and completed plugging activities in Mine Unit A in May of 2005. Cameco provided plug and abandonment notification to WDEQ/LQD in the 3rd and 4th Quarter Reports to WDEQ/LQD in 2005.

As a condition of approval of the groundwater restoration in Mine Unit A, the WDEQ/LQD required that a long-term monitoring (LTM) plan be developed down gradient of the mining zone. The LTM plan does not contain predicted attenuation values, but rather how the concentration of radium and redox sensitive elements will decrease over time as the restored groundwater moves toward and through the more reducing environment.

MP-4 and I-21 are wells located and completed in the production zone, and samples from these wells are representative of restored production fluids. LTM-4 is a monitor well completed in the flare from the production zone. M-3 and M-4 are wells completed in the 20-sand down gradient of Wells MP-4, I-21, and LTM-4. Refer to Table 3-6, Long Term Monitoring Plan Data, for the most recent data during the reporting period. The last round of LTM data indicates the predicted values from the LTM Plan are accurately showing natural attenuation is occurring. The predicted values of the ring monitor wells are Fe = <0.1 mg/L; Mn = 0.04 mg/L (~60-yrs); Se = <0.0001 mg/L; Unat = <0.001 mg/L; and Ra = 8 pCi/L (~60-yrs). Water quality for wells M-3 and M-4 show that the values for Fe, Mn, Se, and Ra are within the predicted values. Unat is slightly higher than the predicted values, however, it remains well below the baseline level of 0.05 mg/L at the monitor well ring (M-3 and M-4) as well as well LTM-4, which is located inside the monitor well ring.

Mine Unit B

The report entitled "Mine Unit B Groundwater Restoration Report" was submitted to the WDEQ/LQD under cover dated August 5, 2004. The report detailed the groundwater restoration techniques utilized by Cameco, the volumes of groundwater processed for each stage of restoration, and the final groundwater quality in MU-B at the end of active restoration.

The Stability Period for Mine Unit B began on June 28, 2004 and ended on December 28, 2004. The report entitled "Mine Unit B Groundwater Stability Report" was submitted to the WDEQ/LQD under cover dated May 5, 2005. The report provided the groundwater

quality data collected during the Stability Period and responses to WDEQ/LQD comments and concerns derived from the groundwater restoration report.

WDEQ-LQD approved Mine Unit B groundwater restoration on March 31, 2008. Submittals were prepared and presented to NRC for their review under cover dated June 26, 2009. During the previous report period, Cameco received comments from the NRC on the Mine Unit B restoration and stability report submittals and is in the process of preparing responses to those comments. An advanced study is being conducted by Intera, Inc. by Dr. Daniel Ersirine to assist Cameco in responding to comments.

Mine Unit C

Production from the 50-sand aquifer in Mine Unit C began by injection of lixiviant in the C8 and C10 pattern groups in July 1989. Injection of lixiviant into the last group of patterns remaining in production was stopped on May 11, 1999. Preparation for restoration of the groundwater in the northern portion of Mine Unit C began in the spring of 1997.

In February 2011 a well replacement program was developed based on modeling efforts for restoration activities. Cameco submitted a request to WDEQ-LQD to install 55 replacement wells under TFN 5 1/226. Approval of the proposal is pending with WDEQ-LQD. This program was defined as necessary throughout the investigation of the bio-remediation study data collection. In April, 2011, Cameco resumed limited RO treatment combined with concurrent groundwater monitoring.

Bioremediation Project in Mine Unit C

The Mine Unit C (MU C) bioremediation project was conducted from April to November of 2009 and used methanol and cheese whey as nutrients. The analysis of the test results continued on into 2010, and a report was submitted to the DEQ in December, 2010. That report concluded that the bioremediation test was not successful because of poor hydrologic sweep caused by partially clogged injection wells and an underground mine tunnel that runs through MU C. The report recommended that any future bioremediation tests be conducted in a much smaller area (encompassing no more than a header house and possibly only an individual pattern or patterns within a header house), and that the experimental protocol carefully define the chemical and physical measurements to be made. Furthermore, the data should be analyzed as the experiment proceeds rather than in the aftermath of field activities.

Groundwater Quality in the 50-Sand-Bi-Monthly MP-Well Sampling

Routine sampling of Wells CMP-1 through CMP-20, located in the northern section of Mine Unit C, began in August 1997. The water quality data, which is collected every two months, is summarized in the Quarterly Reports to WDEQ/LQD. Routine sampling of Wells CMP-21 through CMP-32 in the southern section of Mine Unit C began in July 1999. Upon approval of the bioremediation project in April, 2009, by WDEQ/LQD, the

sampling frequency changed to monthly. Averaged selected parameters from CMP-Well sample data are summarized in Table 3-7.

Underground Mine Workings

During 1991, it was determined that production fluids from the 50-sand within Mine Unit C had entered the abandoned underground workings situated beneath the permitted zone. This was not unexpected, as raises and fan drilling at several locations connect these workings and the Mine Unit C production zone. The underground workings also extend to the 40-sand production zone in Mine Unit D. In November 1992, the WDEQ/LQD approved a permit revision to include the underground workings in the Mine Unit C production zone. Additional wells were installed to monitor the potential movement of production fluids within and surrounding the underground workings. As required in Section 4.2.1 of the approved Restoration Plan, this group of 11 wells (CMU-1, CMU-2, CMU-3, CMU-12, CMU-13, and CRMW-1 through CRMW-6) are monitored to assess the progress of groundwater restoration in the underground workings. Monitoring of these wells began in August 1997 and the results are included in the Quarterly Reports to WDEQ/LQD.

Mine Units D and D-Extension

Production from Mine Unit D commenced in May 1991 and D-Extension commenced in February 1995. Injection of lixiviant into the last group of patterns remaining in production was halted on April 2007 in Mine Unit D and February 2007 in Mine Unit D-Extension. Preparations for ground water restoration in Mine Unit D began in the winter of 2009 with upgrades in infrastructure.

During the report period, Cameco completed installation of 35 replacement wells in the mine unit. RO treatment started at the up-gradient end of the mine unit and was expanded to the northeast as additional deep disposal well capacity became available. At the end of the report period, 66,301gallons or 1.29 PV had been treated.

Mine Unit E

Production from Mine Unit E commenced in November 1991. Injection of lixiviant into the last group of patterns remaining in production was halted in April 2007. In March 2010, Cameco submitted a proposal for the installation of 177 replacement restoration wells to efficiently deliver restoration fluids evenly throughout the mine unit's production zone.

Cameco completed drilling and well completions on 59 out of 177 replacement wells towards the end of the report period. These wells were located in the header-house E-12 through E-18 areas. Additionally, Cameco has refurbished the header houses and completed the work on the southern portion of the wellfield.

Waste Water Treatment

Purchase and engineering of an additional 750 gpm reverse osmosis (RO) treatment capacity was conducted during the report period. In addition, Cameco plans to employ technical means and apply anti-scalant chemicals to treated water to increase the volume of permeate and decrease RO reject (brine) from approximately 25% to 15% of water treated.

5. 2011-12 Mining Plans

Describe in detail, mining plans for the coming year including revised time schedules and all proposed deviations from previously approved plans. Acreages should be tabulated and illustrated on a map.

In accordance with W.S. 35-11-412(a)(iii) a revised schedule of mining and restoration activities is required to be included in the Annual Report; however the WDEQ-LQD advised, in April 8, 2011 correspondence of the 2009-2010 Annual Report Review, Comment #21, that a revised restoration schedule would not be accepted in the Annual Report, pending responses to TFN 5 3/121. Therefore, no revised restoration schedule has been included with this Annual Report. Cameco submitted responses to TFN 5 1/119 in correspondence dated May 5, 2011 and is pending review by WDEQ-LQD

Highland Central Processing Facility

A modernization plan is being developed for the Highland Central Processing Facility (CPF) to accommodate a new Resin Transfer System within existing facilities. The Resin Transfer System is being designed to allow for toll processing of materials and will consist of two processing circuits for elution, batch precipitation (using hydrogen peroxide), clarification and storage of yellowcake slurry. Drying of the yellowcake slurry will be handled by two (2) zero emission (vacuum) rotary dryers located within the existing CPF facilities.

Engineering for the Highland Resin Transfer System should be complete by August 2011. During the 3rd Quarter of 2011, Cameco plans to begin demolition activities at the Highland CPF and Office area in order to accommodate the new process circuit. These activities will remove and dispose of the existing processing equipment and create the necessary space for the new equipment. Procurement of equipment and other items necessary for construction will begin at this time as well. During the 2nd Quarter of 2012, Cameco plans to begin construction of the new Resin Transfer System. Permitting actions necessary to facilitate this change will be submitted for LQD approval under separate cover.

Mine Unit F

Production is planned to resume during the next report period. Ongoing activities will include refurbishment of existing facilities and infrastructure upgrades as needed. Other planned activities include delineation drilling within existing wellfield areas to define the extent of

reserves, followed by well installation in existing header house areas and two (2) new header houses in Mine Unit F.

Mine Units H, I/I-Extension, and J/J-Extension

During the next report period, production activities are anticipated to continue in Mine Units H, I and J. Additional delineation drilling is also planned for Mine Units I and J to define the extent of reserves in preparation for extensions of each wellfield. Based on the results of delineation drilling, other planned activities include monitor well installation, hydrologic testing and wellfield development in Mine Units I-Extension and J-Extension.

6. 2011-12 Reclamation Plans

Describe in detail reclamation plans for the coming year including revised time schedules and deviations from previously approved plans. Acreages should be tabulated and illustrated on a map.

(a) Groundwater Restoration

Mine Unit A

The Long Term Monitoring (LTM) Plan specifies that the duration of the monitoring plan will continue from five to fifteen years depending on the extent of the zone of flaring and the placement of the LTM Wells. The most recent monitoring results of the LTM Wells indicate that all parameters are relatively stable throughout the duration of the LTM monitoring plan. CR will continue to sample the LTM Wells on a semi-annual schedule in accordance with the approved LTM Plan and will evaluate the need for continuation of the monitoring plan during the next reporting period.

Mine Unit B

During the next report period, Cameco plans to submit a response to NRC comments and obtain NRC approval of the Mine Unit B ground water restoration. Upon approval of the Mine Unit B groundwater restoration from the NRC, surface reclamation will proceed with well plugging and abandonment, piping removal and seeding. This will include surface reclamation of Mine Units A, B, and Satellite No. 1.

Mine Unit C

Cameco plans to continue traditional restoration methods using reverse osmosis (RO) treatment combined with chemical reductant (sodium sulfide) addition. It is anticipated that up to three additional pore volumes will be needed to attain the restoration target values (RTVs). Compliance monitoring of CMP wells will revert back to bi-monthly sampling. RO treatment capacity is expected to increase to approximately 700 gpm following the installation of

additional RO treatment capacity in Satellite No. 2 and the completion of approximately 55 to 60 replacement wells in Mine Unit C. Other activities planned for this wellfield include well installation and resolution of the CM-32 excursion investigation.

Mine Unit D/D-Extension

Cameco plans to continue traditional restoration methods using RO treatment combined with chemical reductant (sodium sulfide) addition. Compliance monitoring of DMP wells will continue on a bi-monthly sampling schedule. RO treatment capacity up to approximately 400 gpm is expected during the next report period. Other activities planned for this wellfield include additional DM-3 excursion modeling and removal of this well from excursion status.

Mine Unit E

At the end of the current report period, Cameco had completed 67 of the 177 replacement wells in Mine Unit E and plans to commence drilling and well completion of the remaining wells once construction activities are allowed to resume due to wildlife restrictions (raptor nests, sage grouse leks). Restoration activities planned during the next report period include wellfield bleed and completion of a bioremediation pilot (field) test in Mine Unit E as described under Section (b) Restoration Research below.

Satellite No. 1 Radium Settling Basins

During the next report period, Cameco plans to complete the radium-226 survey (counting) and use the resulting data to prepare remediation and decommissioning designs.

Wastewater Treatment and Disposal

During the next report period, installation of an additional 750 gpm (nameplate capacity) RO treatment system is planned for the Satellite No. 2/Selenium Treatment Plant waste water treatment system to accelerate restoration efforts in Mine Units C, D, D-Extension and E. In addition, an approximate 5.5 mile (29,400 foot) pipeline network will be installed to connect the Smith Ranch Central Processing Plant (Permit 633) waste water disposal network to the Satellite No. 2 area waste water disposal network. This pipeline will allow access to all deep disposal wells within the Smith Ranch (633) network to dispose of excess RO reject (brine) in the event additional disposal capacity is needed to supplement the Morton 1-20, Vollman 33-27 and/or SRHUP#9 wells.

(b) Restoration Research

Mine Unit E Bioremediation Pilot Test

Cameco plans to perform a bioremediation field test on an isolated, single five-spot pattern area during the 3rd quarter of 2011. The test is expected to last less than 90 days and consist of bioremediation treatment for redox sensitive species followed by RO to reduce total dissolved solids and other constituents. Details of the bioremediation test, including organic substrates, monitoring requirements (including pre- and post-monitoring for water quality, sweep efficiency, etc.), flow rates, and pore volumes to be treated, will be submitted under a separate "confidentiality" request during the next report period.

Core and Mineralogy Program

This program was presented in the 2009-2010 Annual Report but was not initiated during the report period as previously assessed and is therefore being carried into this Annual Report. The core and mineralogy program will involve retrieval of a total of six cores from mine units that have already been produced. The cores will be twin core holes that had been cored before mining had been conducted in the area. The proposed mine units for this program initially consisted of Mine Units H, K (Permit 633) and 9 (Permit 633); however, Cameco will re-evaluate wellfield suitability prior to program initiation. The goal of the program will be to look at the mineralogy to assess post-mining alteration to the formation.

7. Monitoring Activities

Describe in detail all monitoring activities during the report period, summarize the data, and describe procedures to correct any noted problems and deviations from previously approved methods, including:

(a) Groundwater analyses.

Windmills/Solar wells

As part of the environmental monitoring program, the NRC Source Material License requires the sampling of several windmills and solar wells once each quarter for natural uranium and radium. These data are submitted to the NRC in the Semi-Annual Effluent and Environmental Monitoring Reports. The monitoring data collected during the report period show compliance with applicable NRC requirements. A copy of the sampling analysis provided in the February 28, 2011 NRC Semi-Annual Reports pertaining to Windmill, Solar Wells and Stock Ponds is located in Appendix D.

Excursion Monitoring and Reporting

To maintain compliance with the operational hydrologic monitoring program, monitoring wells in the production zone monitor well ring and those installed in overlying and underlying aquifers are monitored for the excursion parameters (chloride, alkalinity, and conductivity) and water levels twice a month at approximate two-week intervals during production operations and every 60 days during restoration. In addition, wells designated

as production zone monitoring wells (MP-Wells) are monitored every 60 days during restoration operations to evaluate the progress of groundwater restoration. The results of all operational monitoring and excursions are submitted to the WDEQ/LQD in the routine Quarterly Reports as required by Permit No. 603. In addition, a monthly Excursion Summary Report has been provided to WDEQ/LQD since March, 2010 in accordance with Settlement Agreement for Notice of Violation Docket Number 4598-09.

Other Well Monitoring

As part of the environmental monitoring program, the NRC Source Material License requires sampling of the Main Office drinking water well, when operational, and the Vollman Ranch water well for natural uranium and radium. These data are submitted to the NRC in the Semi-Annual Effluent and Environmental Monitoring Reports. The monitoring data collected during the report period show compliance with all NRC requirements. It should be noted that monitoring of the Main Office water well was suspended during the 4th Quarter 2002 due to deactivation of the water system as the CPF was placed on standby status.

(b) Surface water analyses and discharge data.

As part of the environmental monitoring program, the NRC Source Material License requires the sampling of several surface water stock ponds once each quarter for natural uranium and radium. These data are submitted to the NRC in the Semi-Annual Effluent and Environmenal Monitoring Report. The monitoring data collected during the report period show compliance with applicable NRC requirements.

Stock Ponds

As part of the environmental monitoring program, the NRC Source Material License requires the sampling of several stock ponds once each quarter for natural uranium and radium. The monitoring data collected during the report period show compliance with all NRC requirements. The location of these monitoring sites is shown on Plate 1. A copy of the sampling analysis provided in the February 28, 2011 NRC Semi-Annual Reports pertaining to Windmill, Solar Wells and Stock Ponds is located in Appendix D

(c) Precipitation data.

LQD issued a Letter of Conference and Conciliation (LCC) on October 7, 2010. One requirement of the LCC was to install a meteorological station on-site. The station was installed and data tracking starting in November, 2010. Pursuant to Chapter 2, Section 2(a)(i)C) and (D) meteorological data will be collected for precipitation and wind. The data has been prepared to show monthly averages and graphs of temperature, wind speed, daily and total rainfall have been created to illustrate the data.

The total rainfall from the period between November 2010 and April 2011 was 1.58 inches. This results in an average of .26 inches over a six month period. Average wind speeds for the area were 13.1 mph and were predominately out of the southwest. Tables and graphs of this information can be found in Table 10-3.

(c) Subsidence monitoring.
This pertains to conventional open-pit mining operations and is not applicable during the report period.

(d) Overburden analyses.
This pertains to conventional open-pit mining operations and is not applicable during the report period.

(f) Topsoil quantities - compare calculated and actual.

Topsoil from a newly created Bell Hole Tie-In was added to topsoil pile #30 which was created in 1996. The original volume of 480 cubic yards has been increased to 592 cubic yards with this addition. Stockpile #96 was created on October 1, 2010 from material from Mine Unit K-North access road. The stockpile has a volume of 600 cubic yards. Stockpile #97 was created on April 1, 2011 from material from Mine Unit K-North DAM topsoil pile. The stockpile has a volume of 343 cubic yards. Stockpile # 98 was created on May 1, 2010 from material from the Vollman 33-27 Deep Disposal Well Topsoil pile and has a volume of 301 cubic yards. These long-term topsoil piles have been added to Plates 1 and 1-4 (HUP).

Topsoil Pile #34 (410 cubic yards) and Topsoil Pile #35 (550 cubic yards were combined into one topsoil pile. The volume of remaining topsoil pile is 721 cubic yards or 19,446.6 cubic feet (combination of Topsoil Pile #34 and 35) due to an improved volume calculation method using a Trimble GPS unit.

(g) Vegetation data.

Wellfield purge and groundwater restoration fluids are treated for the removal of uranium and radium prior to disposal at the Satellite No.1 or Satellite No. 2 Land Application Facilities (Irrigators No.1 and No. 2, respectively). Both facilities were permitted by the WDEQ/WQD. Irrigator No.1, located near Satellite No.1, was initially permitted under Permit No. 86-217. It was renewed on April 16, 1992 under Permit No. 92-077. The permit for Irrigator No. 1 (IR-1) was renewed a second time on May 5, 1995 under Permit No. 95-156R. IR-1 was not operated during the report period.

Irrigator No. 2 (IR-2), located at Satellite No. 2, was permitted on April 4, 1994 under Permit No. 93-410. IR-2 operated from May 11, 2009 through October 12, 209 during the report period. Pursuant to NOV 4231-08 Settlement Agreement Item, Cameco ceased land application activities on October 15, 2009 to demonstrate that wastewater disposed of via land application has an average selenium level of 0.1 mg/L or less. On October 22, 2009 Cameco submitted to WDEQ/LQD proposed changes to Permit 603 for the use and sampling of the wastewater to be disposed of at the irrigator. WDEQ/LQD approved the non-significant revisions on April 26, 2010 with Change No. 69 to Permit 603.

Permits for each irrigator require annual sampling of vegetation within the irrigation areas. Vegetation samples were obtained and composited according to each quarter of the irrigation circle they represented. The samples were obtained by clipping approximately two to three kilograms of vegetation at each site, and forwarded to Energy Laboratories, Inc. for analysis. Laboratory results for the vegetation samples are included in Tables 7-1 and 7-2.

To assist in assessing any long-term trends, the mean selenium concentration in vegetation at Irrigator No. 1 for the period 1996 through 2010 is shown in Figure 7-1. Also shown in Figure 7-1 are selenium concentrations in vegetation at Irrigator No. 1 background areas for the period 1996 through 2010. A review of the selenium data in Figure 7-1 shows that the mean selenium concentration at IR-1 between the previous year and 2010 increased from 12.48 mg/kg, to approximately 18.78 mg/kg. In comparison, the selenium concentration in the background sample collected during 2010 was approximately 2.1 mg/kg.

To assist in assessing any long-term trends in vegetation at Irrigator No. 2, Figure 7-2 shows mean selenium concentrations for the period 1996 through 2010. Also shown in Figure 7-2 are selenium concentrations in vegetation at Irrigator No. 2 background areas for the period 1996 through 2010. A review of the data in Figure 7-2 shows that the mean selenium concentration at IR-2 decreased to 1.4 mg/kg. In comparison, the selenium concentration in the background sample collected during 2010 was approximately 0.5 mg/kg. It should be noted that the 1998 through 2010 data from Irrigator No. 2 reflects the changes in laboratory analysis procedures discussed above.

During the report period Cameco contracted Golder to consult and complete characterization studies regarding selenium content at the irrigators. The scope of work to complete the study was developed to address WDEQ-LQD comments from the 2007-2008 Annual Report (#19 through #23). Sampling of the irrigators was completed in the fall of 2010. Golder presented their report of findings in a meeting with Cameco and WDEQ-LQD in April, 2011. The comments from 2007-2008 were incorporated into

TFN 5 3/251; however, WDEQ-LQD responded to Golder's findings in their review of the 2009-2010 Annual Report Comments. Cameco will respond to those comments in separate correspondence to maintain consistency with completion of the TFN 3 1/251. During the next report period Golder has been retained to carry out characterization studies for conditions related to PSR-2.

(h) Wildlife data.

Three aerial surveys were conducted to locate bald eagle winter roost sites and to confirm potential winter roost habitat in or within one mile of the combined Permit Area. Prior to aerial surveys, potential bald eagle winter roost habitat (i.e. arboreal habitat consisting of at least a few trees clustered in a grove) was delineated within one mile of the Permit Area using National Agriculture Imagery Program (NAIP) aerial photographs from 2009. This enabled potential bald eagle winter roosting sites to be effectively targeted. Bald eagle winter roost aerial surveys were conducted on January 23, February 10, and March 1, 2011. No bald eagles were observed during the three aerial surveys.

An aerial survey will be conducted early in the next report period to identify potential sage grouse leks. Additionally, Cameco will conduct ground surveys to confirm potential lek locations.

The results will be made available during the 2012 Annual Report. The following surveys are planned for 2011; black-tailed prairie dog presence/activity surveys and mapping, mountain plover habitat/presence survey, wetland/pond surveys and wildlife use on disturbed and reclaimed areas and results will be available in the 2012 Annual Report. Raptor surveys are in progress. A finalized updated map related to these surveys will be presented with the 2012 Annual Report.

Other Monitoring Activities

Ambient Air Monitoring:

In accordance with the NRC Source Material License, Cameco currently maintains three air monitoring stations in the Highland licensed area. The stations are used to monitor uranium, radium, thorium, radon, and gamma radiation and are located at the following places: Downwind at the restricted area boundary (Overlook); the nearest downwind residence (Fowler Ranch); and an upwind background site (Vollman Ranch). The Overlook and Fowler Ranch sites are only monitored when the CPF is in operation. Therefore, there was no data collected for these stations during the report period. The Vollman Ranch station is currently being monitored as the downwind site for the Smith Ranch Central Processing Plant. Data are collected from these stations on a quarterly basis and submitted to the NRC in the Semi-Annual Effluent and Environmental

Monitoring Reports. The monitoring data collected during the report period show compliance with applicable NRC requirements.

Particulate Discharge Monitoring

When the CPF at the Highland Uranium Project is operational, Cameco monitors the Yellowcake Dryer and Packaging scrubber exhaust stacks to determine the emission rate of particulates, uranium, radium, and thorium. During the 4th Quarter of 2002, the Highland CPF was placed on standby status as all yellowcake processing activities (elution, precipitation, drying, and packaging) were transferred to the Smith Ranch Central Processing Plant. Therefore, no stack tests were conducted during the report period.

Liquid Effluent Monitoring

When the Highland CPF was operational, wastewater brine generated in the CPF was disposed in the Morton 1-20 waste disposal well permitted with the WDEQ-WQD under the Wyoming UIC program (Permit No. 98-001). To increase water disposal capacity during restoration activities, one new deep disposal well, SRHUP #9 was installed and two existing deep disposal wells, Morton 1-20 and Vollman 33-27, were recompleted. All three wells are permitted under Class I UIC Permit 09-054. Monitoring and reporting is performed in compliance with the WDEQ-WQD quarterly requirements.

Land Application

Irrigation Fluid

Permits for each facility require sampling of the irrigation fluid once each month during operation and reporting of the irrigation fluid quality and quantity. The quality of irrigation fluid applied at Irrigator No. 2 during the report period is provided in Table 7-4. The volumes of irrigation fluid applied at each irrigator from the inception of irrigation activities through October 31, 2011 are shown in Tables 7-5 and 7-6 of this report.

Soil

Permits for each irrigation facility require annual sampling and analysis of soils within the irrigation areas. Soil samples were collected from each irrigator at intervals of zero to six and six to twelve inches in August 2010.

Fourteen sites were sampled at Irrigator No. 1. A background site located outside of the irrigated area was also sampled. The analytical data for Irrigator No.1 are included in Table 7-7 of this report. To assist in assessing any long-term trends in parameters of concern, the mean conductivity and concentration of selenium, uranium, and radium-226 in soil samples from Irrigator No. 1, 1996 through 2010 is shown in Figure 7-3.

A review of the data in Figure 7-3 shows that mean radium conductivity, selenium and uranium concentrations have increased above background levels. With the exception of soil samples collected from the zero to six-inch depth in 1994, mean soil conductivity levels have remained below the recommended level of 3.5 mhos/cm (3500µmhos/cm), and have decreased over the last two years.

A review of the selenium data in Figure 7-3 shows that, during 1994, mean selenium concentrations in soil reached a maximum of approximately 1.5 and 1.1 mg/kg the zero to six and six to twelve inch depths, respectively. Since 1995, however, mean selenium concentrations have remained relatively constant, ranging from approximately 0.2 to 0.9 mg/kg in the zero to six-inch depth and from approximately 0.1 to 0.7 mg/kg in the six to twelve inch depth.

Mean uranium concentrations in soil during 2010 were approximately 2.2 mg/kg in the zero to six-inch depth and 2.3 mg/kg in the six to twelve inch depth. These levels of uranium in soil are well below the NRC release limit of 30 pCi/g (44 mg/kg) and, as such, pose no undue risk to plant, animal, or human concerns. Background uranium concentrations were 1.05 pCi/g in the zero to six-inch depth and 1.07 pCi/g in the six to twelve inch depth.

At Irrigator No. 2, soil samples were collected from 16 sites within the irrigated area. A background site located outside the irrigated area was also sampled. The analytical data are included in Table 7-8 of this report. To assist in assessing any long-term trends at Irrigator No. 2, the mean conductivity and concentration of selenium, uranium, and radium-226 in soil samples during 1993 and 1995 through 2010 are shown in Figure 7-4.

Similar to the graphs for Irrigator No. 1, Figure 7-4 shows that mean radium, conductivity, selenium, and uranium concentrations in soil have increased above background levels. During 2010, conductivity levels decreased from the previous year with mean conductivity levels below the recommended level of 3,500 µmhos/cm. Average selenium levels showed an increase in the zero to six-inch depth (from 0.484 mg/kg to approximately 0.18 mg/kg) and average concentrations decreased (from .369 mg/kg to .18 mg/kg) in the six to twelve-inch depth. Similar to Irrigator No. 1, selenium concentrations at IR-2 remain within the range of naturally occurring selenium concentrations for Wyoming soils. During 2009, mean uranium concentrations in the zero to six-inch depth decreased to approximately 5.8 mg/kg, while concentrations at the six to twelve inch depth decreased to approximately 3.5 mg/kg. These relatively low levels of uranium in soil are well below the NRC release limit of 30 pCi/g (44 mg/kg) and, as such, pose no undue risk to plant, animal, or human concerns. Radium remained

relatively unchanged in the zero to six-inch depth from 1.33 pCi/g in 2009, to 1.38 pCi/g in 2010. In the six to twelve inch depth it increased from 1.44 pCi/g in 2009, to 2.36 pCi/g in 2010.

Soil Water

Cameco evaluated the operational integrity of the lysimeters at the irrigators on June 29, 2009. In the last few years, soil water samples have not been easy to collect. A contracting consultant advised, based on the manufacturers instructions, that Cameco technicians attempt to prime the lysimeters in order to obtain adequate fluid for sampling. Cameco employees did prime the lysimeters by pouring 1 gallon of water down the tubing, waited 24 hours, then pumped dry and pressured the lysimeter up. Following this, the lysimeters should be sampled as per usual method. Subsequently the wells were sampled; however, not enough water presented to collect and perform analysis.

Being able to obtain adequate volumes for a sample is still an issue however. Cameco is evaluating replacing the lysimeters at the Satellite 2 irrigator. Analysis of soil properties is being evaluated to determine the best lysimeter for the area. At Satellite 1, the possibility of removing the lysimeters is perhaps warranted since it is no longer in operation, and as such will not contain enough soil water to be sampled. Discussions with the WDEQ-WQD and WDEQ-LQD will be conducted in order to ultimately decide the best course of action in regards to collecting soil water samples at these irrigators.

Purge Storage Reservoir No. 2 Shallow Monitoring Wells

The permit for the Satellite No. 2 Purge Storage Reservoir (PSR-2) requires quarterly monitoring of water levels and semi-annual sampling of groundwater from the two shallow wells adjacent to PSR-2. However, the wells are sampled quarterly when water is available. In addition, four new shallow monitoring wells were installed and sampled quarterly. The applicable data for the East and South Shallow Wells during the report period are included in Table 7-9 and 7-10 of this report.

Radium Monitoring

To ensure that the Selenium Plant radium treatment system is operating properly, a monthly grab sample is obtained downstream of the Selenium Plant radium treatment system and analyzed for total radium-226. The target radium-226 concentration is 30 pCi/L (3.0E-8 µCi/ml). Table 7-11 contains the results of the radium-226 monitoring at Satellite No. 2. The average radium-226 concentration during the report period was approximately2.0 pCi/L. This is well below the target concentration of 30 pCi/L and the NRC Effluent Concentration Limit of 60 pCi/L.

Annual Monitoring Report for Boner Bros. Partnership

At the request of the WDEQ/LQD, the 2010 Annual Monitoring Report for Boner Bros. Partnership is included as Appendix B. The sampling is performed to assess potential impacts to vegetation at areas adjacent to PSR-1 that were subject to seepage of treated irrigation fluid from PSR-1. The monitoring data collected during the report period, January 1, 2010 through December 31, 2010, showed no significant impacts to surface water or vegetation.

In summary, the samples analyzed for dissolved selenium concentration in water were below the Class III (Livestock) and Class I (Domestic) limit of 0.05 mg/L and selenium concentrations of the vegetation samples were below the 5 mg/kg threshold for WDEQ/LQD compliance, (WDEQ/LQD Guideline 1 Topsoil and Overburden). It should be noted that Cameco discontinued use of PSR-1 September 2, 2004.

(j) A map showing and identifying monitoring locations.

See Plates 1, and 1-1 through 1-7(HUP)

8. 2010-11 Reclamation Surety Estimate Revision

Operator's Reclamation Performance Bond Estimate as required by Wyoming Statute §3511-417. Reclamation cost estimates should be itemized in detail to reflect the actual estimated costs of reclaiming all lands which have been affected to date and those lands to be affected during the next report period. Costs must reflect procedures as specified in the approved mine and reclamation plan. The estimated cost of dismantling and disposal of all facilities and structures must be included. Salvage value will not be used to offset bonding requirements. Reclamation projected for the coming year will not be used to offset bonding requirements. Pit backfill costs must reflect actual yardages to be moved. Actual yardages to be moved will reflect the removal or placement of additional material to correct any deviations between the PMT map and the map submitted for part 4.(b).

The 2011-12 Surety Estimate Revision is included in Appendix C. The revision results in a surety estimate of $79,594,406, which is an increase of $22,567,806 from the current approved and secured amount of $57,026,600. It also represents and increase of $6,919,620 from the surety estimate revision provided May 2011 of $72,674,786 in response to the 2009-10 Annual Report Review Comments. As shown in Appendix C, most of the increase in the surety estimate is a result of revised and updated unit costs associated with reclamation.

9. Additional Information

Supply any additional information as requested by the Division related to:

(a) Notices of Violation

Current Notices of Violation

During the report period there were no Notices of Violation (NOV) issued in association with Permit No. 603.

Abated Notices of Violation
No Notices of Violation were reported by the LQD as completed during the report period.

Pending Notices of Violation

NOV Docket No. 4122-07, Cameco Resources, H-Wellfield spill remains open. Cameco has responded to all Settlement Agreement stipulations which are pending abatement from LQD.

NOV Docket No. 4419-09, Cameco Resources, Missed Confirmation Sampling CM-14 remains open. Trunkline Spill remains open. Cameco has responded to all Settlement Agreement stipulations which are pending abatement from LQD.

NOV Docket No. 4598-09, Cameco Resources, Missed Confirmation Sampling Monitor Well FM-8 and Topsoil Management remains open. Cameco has responded to all Settlement Agreement stipulations which are pending abatement from LQD.

(b) Orders

ADMINISTRATIVE ORDER ON CONSENT

In December 1999, Cameco submitted the Environmental Audit Report, dated November 21, 1999, which summarized Cameco's internal investigation of casing leaks at injection wells. The report describes the apparent causes for the casing leaks, potential impacts to ground water, mitigative actions, and changes to well construction practices and wellfield operations.

In correspondence dated August 11, 2000, Cameco received an Administrative Order on Consent (Docket No. 3211-00) from the WDEQ/LQD. The items in this Order were negotiated between Cameco and the WDEQ/LQD to address the findings of the audit report and eliminate any impending violations.

In correspondence dated October 19, 2000, Cameco submitted a Compliance Schedule and Minor Permit Revision to the WDEQ/LQD to address Items No. 1 and No. 3 of the Order. Pursuant to Item No. 2 of the Order, Cameco has been submitting quarterly Progress Reports to keep the WDEQ/LQD informed of the on-going investigative and mitigative activities and will continue to provide quarterly updates under TFN 3 2/290.

(c) Permit stipulations; and

Not applicable

d) Other special conditions.

10. 2010-11 Delineation Drilling

All drill holes used for immediate development expansion of the advancing pit(s) shall be tabulated by location and depth and shown on the mining plan map. Pursuant to WS 35-11-404(e), all drill holes used for exploration shall be reported to the LQD.

Refer to Table 10-1 Delineation Drill Holes (April 1, 2010 through April 30, 2011) for drill hole information. Delineation holes drilled during the report period have been plugged and capped in accordance with W.S 35-11-404(c) (i-iii) and Permit 603. Holes are scheduled for surface reclamation during the next report period. As surface reclamation is completed, Cameco intends to request inspection for bond release in separate letters on a quarterly basis to the WDEQ-LQD pursuant to Chapter 8 of the Non-Coal Rules & Regulations.

Refer to Table 10-2 Plugged and Abandonment Report with Bond Release Requests for Permit 603 and Abandoned Drill Hole Map 1 and Map 2 for information on surface reclamation of drilled delineation holes that were completed during the report period. Seeding and reclamation have been done in accordance with W.S 35-11-404(c) (v) and Permit 603. Seed mix used is presented at the end of Table 10-2. With the submittal of Table 10-2, Cameco is providing notification to WDEQ-LQD with a request to release plug and abandonment bond on holes listed pursuant to Chapter 8 of the Non-Coal Rules & Regulations. Attached to the Annual Report is an Index of Change to insert Table 10-2 Plugged and Abandonment Report to Appendix D5 Geology as a non-significant revision (NSR).

11. 2011-12 Proposed Delineation Drilling

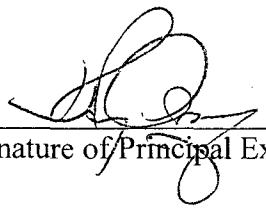
Under TFN 5 6/174, Cameco will provide responses and a revised drilling proposal with listed hole locations where drilling on Permit 603 would be conducted through 2011.

12. Certification and Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Thomas Cannon **General Manager Operations**

Print Name and Title of Principal Executive Officer or Authorized Agent



6.30.11

Signature of Principal Executive Officer or Authorized Agent Date

Bibliography

L. F. James and Others (1990), Selenium Poisoning in Livestock, *Symposium on Selenium, Western U.S.*

Annual Report Attachment

A. Please indicate any change in company name or business organization.

B. List the names, addresses and phone numbers for the following:

1. General Manager:

Tom Cannon
P.O. Box 1210
Glenrock, WY 82637
(307) 358-6541

2. Party to Receive Notice

Dawn Kolkman
Safety, Health, Environment and Quality (SHEQ) Manager
762 Ross Road
Douglas, WY 82637
(307) 358-6541

C. List the names, addresses and phone numbers of all officers, owners and/or controllers. Include titles/positions and beginning and ending dates.

Paul Goranson, President, Cameco Resources, 2020 Carey Avenue, Suite 600, Cheyenne, Wyoming 82001. 1-307-316-7600 (Effective: 3/1/10)

Thomas P. Young, Vice President Operations, Cameco Resources, 2020 Carey Avenue, Suite 600, Cheyenne, Wyoming 82001. 1-307-316-7600 (Effective: 10/13/09)

Ted A. Robinette, Controller, Cameco Resources, 2020 Carey Avenue, Suite 600, Cheyenne, Wyoming 82001. 1-307-316-7600 (Effective: 1/3/08)

Greg Gabruch, Secretary, Cameco Corp., 2121 11th St. West, Saskatoon, Saskatchewan, Canada S7M 1J3 1-306-956-6200 (Effective: 9/19/06)

Rochelle D. Maslin, Assistant Secretary, Cameco Corp., 815-13th St. East, Saskatoon, Saskatchewan, Canada S7M 0M2, 306-956-6200 (Effective: 7/1/05)

Tables

TABLE 3-1
AFFECTED AREAS SUMMARY
2010-2011 ANNUAL REPORT PERMIT 603

Description/Years Affected	Affected Acreage	Temporary Revegetated (Acres)	Permanent Reclamation (Acres)
Central Plant/Office Area; prior to 1987	25	5	3
Radium Settling Basins; 1987-1988	3	1	0
Irrigator No. 1; 1988	55	55	0
Purge Storage Reservoir, Sat 1; 1987-1988	9	4	0
Topsoil Pile No. 3 and Subsoil No. 4	5	5	0
Satellite No. 1; 1987-1988	1	0	0
Satellite No. 1 Access Road; 1987-1988	18	0	0
A/B-Wellfield; 1987-1989	50	50	0
A/B-Wellfield Roads; 1996, 2001	7	0	0
Exxon R & D Site	1	0	0
Satellite No. 2; 1988-1989	2	0	0
Satellite No. 2 Access Road; 1988-1989	1	0	0
C-Wellfield; 1988-1990	50	50	0
C-Wellfield Roads; 1996	7	0	0
Waste Water Pipeline; 1988-1989	11	11	0
D-Wellfield; 1990-1991	14	14	0
D-Wellfield Roads; 1996	2	0	0
E-Wellfield; 1990-1995	44	44	0
E-Wellfield Roads; 1996	8	0	0
F-Wellfield; 1992-1999	134	134	0
F-Wellfield Roads; 1996-1998, 2001	12	0	0
PSR Pumpback System, 1994-1995	1	1	0
Purge Storage Reservoir; Sat 2; 1994-1995	40	8	0
Irrigator No. 2; 1995	116	116	0
Satellite No. 3 and Topsoil Pile; 1995-1996	3	1	0
Satellite No. 3 Access Road and Topsoil Piles/Borrow	8	2	0
H-Wellfield; 1998-2001 (in production)	61	61	0
H-Wellfield Roads; 1998-2001	8	0	0
Waste Disposal Well No. 2 and Access Road	3	1	0
D-Extension Wellfield; 2001 (in production)	10	10	0
D-Extension Wellfield Roads; 2001	2	0	0
SR-HUP Connecting Road and Topsoil Piles/Borrow Areas;	7	2	0
Mine Unit-I Monitor Well Installation; 2005	<1	0	0
Mine Unit-I; 2006	20	20	0
Mine Unit-I Roads; 2006	2	0	0
Mine Unit-I Pipeline Corridor 2006	2	2	0
Mine Unit-J Delineation Drilling, Monitor Wells 2007	10	10	0
Mine Unit-J Access Road and Staging Area 2007	0.8	0	0
Mine Unit-J Wellfield Area 2007	37.2	37.2	0
Mine Unit F-Drill Ponds 2008	8	8	0
Mine Unit H-Drill Ponds 2008	7	7	0
Selenium Treatment Facility 2009	0.7	0	0
SRHUP#9 Deep Disposal well Pad and Access Road 2010	2.74	0	0
Mine E Laydown Area 2010	0.46	0	0
Mine Unit K-North 2011	6		

2010-2011 Total Affected Area	**3.9**	**0**	**0**
CUMULATIVE TOTALS	**808.9**	**659.2**	**3**

TABLE 3-2
TOPSOIL STOCKPILE SUMMARY
2010-2011 ANNUAL REPORT PERMIT 603

Stockpile No.	Year/Date Stockpiled	Estimated Volume (yd3)	Amount Used (yd3)	Remaining
8	10/1/1993	100	0	100
1	7/1/1987	3,000	0	3,000
2	7/1/1987	6,000	0	6,000
3	8/1/1987	45,000	0	45,000
4 (subsoil)	9/1/1987	50,000	0	50,000
5	11/1/1988	700	0	700
6	11/1/1988	450	0	450
7	4/1/1991	100	0	100
9	11/1/1995	0	0	0
10	11/1/1995	1,100	0	1,100
11	11/1/1995	910	0	910
12	11/1/1995	1,970	0	1,970
13	Oct/Nov96	270	0	270
14	Oct/Nov96	350	0	350
15	Oct/Nov96	600	0	600
16	Oct/Nov96	50	0	50
17	Oct/Nov96	720	0	720
18	Oct/Nov96	0	0	0
19	Oct/Nov96	230	0	230
20	Oct/Nov96	200	0	200
21	Oct/Nov96	260	0	260
22	Oct/Nov96	30	0	30
23	Oct/Nov96	20	0	20
24	Oct/Nov96	130	0	130
25	Oct/Nov96	520	0	520
26	Oct/Nov96	450	0	450
27	Oct/Nov96	560	0	560
28	Oct/Nov96	670	0	670
29	Oct/Nov96	320	0	320
30	Oct/Nov96	592	0	592
31	Oct/Nov96	520	0	520
32	Oct/Nov96	900	0	900
33	Oct/Nov96	370	0	370
34	Oct/Nov96	410	0	410
35	Oct/Nov96	550	0	550
36	Oct/Nov96	0	0	0
37	Oct/Nov96	210	0	210
38	Oct/Nov96	560	0	560
39	Oct/Nov96	220	0	220
40	Oct/Nov96	290	0	290
41	Oct/Nov96	110	0	110
42	Oct/Nov96	200	0	200
43	Oct/Nov96	340	0	340
44	Oct/Nov96	240	0	240
45	Oct/Nov96	200	0	200
46	Oct/Nov96	220	0	220
47	Oct/Nov96	420	0	420
48	6/1/1997	320	0	320
48A	6/1/1998	400	0	400

TABLE 3-2
TOPSOIL STOCKPILE SUMMARY
2010-2011 ANNUAL REPORT PERMIT 603

Stockpile No.	Year/Date Stockpiled	Estimated Volume (yd3)	Amount Used (yd3)	Remaining
49	Oct/Nov 96	1,160	0	1,160
50	Oct/Nov 96	920	0	920
51	Oct/Nov 96	350	0	350
52	3/1/1998	700	0	700
53	4/1/1998	240	0	240
54	4/1/1998	300	0	300
55	11/1/1998	100	0	100
56	11/1/1998	400	0	400
57	11/1/1998	100	0	100
58	11/1/1998	150	0	150
59	11/1/1998	170	0	170
60	11/1/1998	280	0	280
61	11/1/1998	200	0	200
62	11/1/1998	580	0	580
63	11/1/1998	520	0	520
64	11/1/1998	350	0	350
65	11/1/1998	350	0	350
66	11/1/1998	710	0	710
67	11/1/1998	780	0	780
68	11/1/1998	780	0	780
69	11/1/1998	1,000	0	1,000
70	11/1/1999	60	0	60
71	1/1/2000	50	0	50
72	4/1/2000	50	0	50
73	5/1/2000	50	0	50
74	11/1/2000	200	0	200
75	11/1/2000	75	0	75
76	11/1/2000	80	0	80
77	4/1/2001	60	0	60
78	4/1/2001	50	0	50
79	4/1/2001	40	0	40
80	6/1/2001	50	0	50
81	6/1/2001	130	0	130
82	6/1/2001	350	0	350
83	4/1/2001	50	0	50
84	4/1/2001	30	0	30
85	4/1/2001	250	0	250
86	9/1/2002	325	0	325
87	5/1/2005	50	0	50
88	4/1/2006	80	0	80
89	4/1/2006	80	0	80
90	2/1/2006	50	0	50
91	2/1/2006	50	0	50
92	11/1/2009	6,755	0	6,755
93	11/1/2009	720	0	720
94	1/1/2010	204	0	204
95	2/1/2010	267	0	267
96	10/1/2010	600	0	600
97	4/1/2011	343	0	343

TABLE 3-2
TOPSOIL STOCKPILE SUMMARY
2010-2011 ANNUAL REPORT PERMIT 603

Stockpile No.	Year/Date Stockpiled	Estimated Volume (yd3)	Amount Used (yd3)	Remaining
98	5/1/2010	301	0	301
TOTAL		143,322	0	143,322

TABLE 3-3
URANIUM PRODUCTION BY YEAR
2010-2011 ANNUAL REPORT PERMIT 603

Year	Pounds Uranium
1/7/88 - 6/30/88	412,177
7/1/88 - 5/10/89	621,000
5/11/89 - 4/30/90	886,097
5/1/90 - 6/30/91	1,396,298
7/1/91 - 5/31/92	1,026,676
6/1/92 - 5/31/93	847,082
6/1/93 - 5/31/94	833,542
6/1/94 - 5/31/95	693,804
6/1/95 - 5/31/96	969,023
6/1/96 - 5/31/97	1,373,658
6/1/97 - 5/31/98	1,415,320
6/1/98 - 5/31/99	1,145,228
6/1/99 - 5/31/00	832,477
6/1/00 – 5/31/01	800,753
6/1/01 – 5/31/02	596,541
6/1/02 – 5/31/03	402,264
6/1/03 – 5/31/04	270,306
6/1/04 – 5/31/05	737,093
6/1/05 - 5/31/06	610,435
Total pounds uranium produced (drummed at HUP) as of May 31, 2006	**15,869,774**
6/1/06 – 5/31/07	1,756,761
6/1/07 – 5/31/08	1,359,104
6/1/08 – 5/31/09	1,762,092
6/1/09 - 5/31/10	1,902,403
6/1/10 - 5/31/11	1,491,944
***Total combined pounds uranium produced (eluted) as of May 31, 2010**	**8,272,304**

*This number reflects production from both the Smith-Ranch and Highland operations as processing for both facilities occurs in the Central Processing Plant at Smith-Ranch.

TABLE 3-4
WELLFIELD RELEASE SUMMARY
2010-2011 ANNUAL REPORT PERMIT 603

DATE	LOCATION	VOLUME (gal)	SURFACE AREA (FT^2)	CAUSE
No Releases for Reporting Period	NA	NA	NA	NA

TABLE 3-5
FACILITY WATER BALANCE REPORT
2010-2011 ANNUAL REPORT PERMIT 603

Location	Recovery Volume (gallons)	Injection Volume (gallons)	Over Recovery Volume (gallons)	Average Production Rate (gpm)
Satellite #2	873,398,717	847,183,448	26,215,269	1,659
Satellite #3	1,689,270,443	1,670,616,962	18,653,481	3,465

TABLE 3-6
LONG TERM MONITORING PLAN DATA (MINE UNIT A)
2010-2011 ANNUAL REPORT PERMIT 603

WELL ID	DATE	Cl	TDS	ALK	pH	Fe	Mn	Se	U nat	Ra 226	Water Level
2005											
MP-4	5/10/2005	16	485	287	6.75	0.71	0.6	0.188	11.9	3580	5049.5
I-21	5/10/2005	18	585	397	7.14	0.04	0.41	0.001	4.65	750	5048.6
LTM-4	5/10/2005	25	515	298	7.64	<0.03	0.06	<0.001	0.018	28.3	5050.6
M-3	5/10/2005	2	326	171	7.87	0.07	0.03	<0.001	0.0151	9	5048.1
M-4	5/10/2005	3	335	174	7.82	0.07	0.04	<0.001	0.0144	6.8	5042.2
2006											
MP-4	4/13/2006	19	472	305	6.99	0.34	0.56	0.191	13.2	1340	
I-21	4/13/2006	18	574	430	7.46	ND	0.4	0.003	3.53	571	
LTM-4	4/13/2006	23	480	312	7.68	ND	0.08	0.002	0.014	22	
M-3	4/13/2006	6	324	182	8.07	0.04	0.03	ND	0.0148	3.5	
M-4	4/13/2006	5	328	182	7.86	ND	0.04	0.002	0.0235	2.7	
MP-4	9/20/2006	18	496	286	6.94	0.33	0.56	0.196	13.4	3260	
I-21	9/20/2006	17	580	414	7.4	ND	0.42	0.004	1.64	480	
LTM-4	9/20/2006	21	490	297	7.63	ND	0.09	ND	0.013	23.7	
M-3	9/20/2006	4	324	174	8.01	ND	0.03	ND	0.0158	6.9	
M-4	9/20/2006	5	336	175	7.01	ND	0.04	0.001	0.02	6.2	
2007											
MP-4	5/11/2007	18	502	294	6.92	0.07	0.52	0.198	13.1	3440	
I-21	5/11/2007	17	602	442	7.54	0.04	0.42	0.013	1.63	585	
LTM-4	5/11/2007	21	498	312	7.67	ND	0.09	ND	0.0188	35	
M-3	5/11/2007	2	330	182	7.96	ND	0.03	ND	0.0162	7.6	
M-4	5/11/2007	3	336	184	7.94	ND	0.03	ND	0.0149	7.7	
MP-4	10/25/2007	17	498	372	7	0.48	0.49	0.194	13.5	3240	
I-21	10/25/2007	16	579	556	7.57	ND	0.4	ND	1.29	475	
LTM-4	10/25/2007	21	484	391	7.69	ND	0.08	ND	0.0129	24.1	
M-3	10/25/2007	2	311	226	7.97	ND	0.03	ND	0.016	9.3	
M-4	10/25/2007	4	333	230	7.99	ND	0.04	ND	0.0275	20	
2008											
MP-4	5/15/2008	16	509	290	6.71	0.66	0.59	0.19	11.8	3830	5029.5
I-21	5/15/2008	16	607	439	7.33	ND	0.48	0.004	1.69	629	5052
LTM-4	5/15/2008	21	494	314	7.6	0.03	0.08	ND	0.0159	28.2	5053.6
M-3	5/15/2008	2	322	175	8	0.07	0.03	ND	0.0233	9.2	5052.3
M-4	5/15/2008	4	334	178	7.53	0.05	0.03	ND	0.0127	7.2	5051.7
MP-4	10/6/2008	18	488	289	6.92	0.33	0.54	0.202	14.7	3380	5029.5
I-21	10/6/2008	17	569	436	7.42	ND	0.45	0.021	2.04	579	5052
LTM-4	10/6/2008	19	473	321	7.57	ND	0.1	ND	0.0137	27	5053.6
M-3	10/6/2008	3	303	175	7.89	0.08	0.02	ND	0.0131	8	5052.3
M-4	10/6/2008	4	313	177	7.87	ND	0.03	ND	0.0134	6.8	5051.7

TABLE 3-6
LONG TERM MONITORING PLAN DATA (MINE UNIT A)
2010-2011 ANNUAL REPORT PERMIT 603

WELL ID	DATE	Cl	TDS	ALK	pH	Fe	Mn	Se	U nat	Ra 226	Water Level
2009											
MP-4	5/18/2009	18	502	299	6.92	0.43	0.55	0.208	14.60	3140	5054.5
I-21	5/18/2009	14	587	449	7.29	ND	0.42	0.005	0.7520	441	5055.6
LTM-4	5/18/2009	18	503	325	7.4	ND	0.09	ND	0.0177	30	5057.8
M-3	5/18/2009	2	326	180	7.82	ND	0.03	ND	0.0130	7.7	5052.9
M-4	5/18/2009	3	318	183	7.81	ND	0.03	ND	0.0117	5.2	5054.4
MP-4	11/4/2009	18	502	315	8.18	0.26	0.53	0.202	14.800	3460	5055.6
I-21	11/4/2009	15	578	468	8.21	ND	0.45	0.002	0.9800	552	5053.9
LTM-4	11/4/2009	19	481	351	8.21	ND	0.10	ND	0.0169	25	5055.6
M-3	11/4/2009	3	299	189	8.27	ND	0.03	ND	0.0148	7.9	5053.4
M-4	11/4/2009	4	308	190	8.3	ND	0.03	ND	0.0130	5.7	5054.8
2010											
MP-4	5/19/2010	19	537	315	6.78	0.51	0.52	0.194	15.7	3690	5052.13
I-21	5/19/2010	16	618	472	7.39	ND	0.43	0.003	1	502	5056
LTM-4	5/19/2010	20	518	352	7.42	ND	0.1	ND	0.0191	27	5058.36
M-3	5/19/2010	3	327	187	7.76	ND	0.03	ND	0.0149	8.1	5054.4
M-4	5/19/2010	4	333	190	7.8	ND	0.03	ND	0.014	5.5	5050.42
2011											
MP-4	11/16/2010	18	515	314	7.78	0.72	0.6	0.204	15.7	3340	5053.33
I-21	11/16/2010	16	607	458	7.77	0.05	0.49	ND	0.663	511	5056.6
LTM-4	11/16/2010	20	518	352	7.42	ND	0.1	ND	0.0191	27	5058.36
M-3	11/16/2010	3	327	187	7.76	ND	0.03	ND	0.0149	8.1	5054.4
M-4	11/16/2010	4	333	190	7.8	ND	0.03	ND	0.014	5.5	5050.42

Note: All parameter values are in mg/L except for pH (std. units) and radium (pCi/L).
Water levels are mean sea level elevations in feet.

TABLE 3-7
C-WELLFIELD SELECTED MEAN WATER QUALITY CHARACTERISTICS AT WELLS CMP-1 THROUGH CMP-32 (mg/L unless noted)
2010-2011 ANNUAL REPORT PERMIT 603

Year	HCO_3	SO_4	Cl	TDS	Cond (µmhos/cm)	Se	U	Radium-226 (pCi/l)
7/1/1997 (CMP1-CMP20)	625	624	198	1979	2355	2.27	23.4	2175
5/1/1998 (CMP1-CMP20)	657	677	228	1968	2360	1.68	30.6	1634
5/1/1999 (CMP1-CMP32)	637	603	210	1843	2289	1.64	30.4	1777
3/1/2000 (CMP1-CMP32)	581	493	154	1578	2098	1.35	22.7	1831
Jun-01	524	--	147	--	2051	--	25.9	--
May-02	468	--	144	--	1846	--	20	--
Apr-03	647	--	167	--	2179	--	17.8	--
Apr-04	528 (Alkalinity)	--	139	--	1781	--	14.4	--
May-05	394 (Alkalinity)	--	106	--	1885	--	11.8	--
May-06	319 (Alkalinity)	--	75	--	1202	--	8.5	--
May-07	261	--	53	--	1115	--		--
May-08	230 (Alkalinity)	--	43	--	1296	--	3.9	--
May-09	283 (Alkalinity)	--	38	--	792	0.351	3	--
May-10	387 (Alkalinity)	--	46	--	920	0.083	6.92	--
Jun-11	285 (Alkalinity)	--	42	--	790	--	5.54	--
Baseline (CMP1-CMP32)	203	210	5	492	721	0.02	2.16	703
Class of Use (Domestic)	NA	250	250	500	NA	0.01	5	5
Class of Use (Livestock)	NA	3000	2000	5000	NA	0.05	5	5

Table 4-1 INTERIM RECLAMATION ACTIVITIES
2010-2011 ANNUAL REPORT PERMIT 603

	MINE UNIT/LOCATION	TYPE OF DISTURBANCE (ROAD, WELLFIELD, SPILL AREA, ETC.)	RECLAMATION TYPE (INTERIM OR PERMANENT)	AREA SQ FT	MINE ACRES	TOPSOIL APPLICATION (YES/NO)	TOPSOIL APPLICATION DEPTH (INCHES = ")	TYPE OF SEED	SEEDING DATES	SEEDING PROCEDURE	RATE OF SEED APPLICATION	TYPE & RATE OF FERTILIZER	TYPE & RATE OF MULCH APPLIED	ACRES RECLAIMED IN 2010-11 BY MINE UNIT
MINE UNIT K - NORTH 603 PERMIT	1) CREATED STOCKPILE NO. 96 - MINE UNIT K-NORTH; COMPLETED RESEEDING WITH HYDRO-SEEDER ON 10/06/2010.	WELLFIELD	INTERIM	4,818.30	0.11	NO	N/A	2010B SEED MIX: Western Wheatgrass, Rosana 2.47 Slender Wheatgrass 1.71 Linn Perennial Rye 1.23 Indian Ricegrass 1.23 Blue Grama 2.47 Little Bluestem 1.08 Gardner Saltbrush .31 Total 10.5 PLS # / AC $48.00/AC (14 +/- BULK LBS PER ACRE, BAGS = 45 LBS, USE 1 BAG EVERY 3 ACRES). 10.5 Pls#/ac @ $49 per acre.	OCTOBER, 4TH QUARTER	2.b) THE SOIL AMENDMENT PROCESS SUMMARY FOR CULVERTS, DRAINAGE AREAS, AND SIMILAR AREAS NOT ACCESIBLE BY A TRACTOR INCLUDE:o CONTOUR AREA WITH RAKE/SHOVEL TO ORIGINAL STATE. o SPREAD APPROPRIATE FERTILIZER IN CONTOURED AREA. o SEED AREA WITH HYDRO-SEEDING UNIT OR PORTABLE SEEDING UNIT (CAMECO APPROVED SEED MIX & 1 ANNUAL CROP - OATS). o SPRAY OR RAKE SEED INTO DISTURBED AREA. o INSTALL "EROSION BLANKETS," "WATTLES", OR "SEDIMENT STOP" OVER SEEDED AREA.SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). 10.5 Pls#/ac @ $49 per acre, BONDED FIBER MATRIX = $1,100.22 COST PER ACRE	10.5 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	FERTILIZER = $91.88 COST PER ACRE; BONDED FIBER MATRIX = $1,100.22 COST PER ACRE	
	CREATED DAM STOCKPILE NO. 97 - MINE UNIT K-NORTH; COMPLETED RESEEDING WITH HYDRO-SEEDER ON 10/06/2010.	WELLFIELD	INTERIM	2,694.80	0.06	NO	N/A	2010B SEED MIX: Western Wheatgrass, Rosana 2.47 Slender Wheatgrass 1.71 Linn Perennial Rye 1.23 Indian Ricegrass 1.23 Blue Grama 2.47 Little Bluestem 1.08 Gardner Saltbrush .31 Total 10.5 PLS # / AC $48.00/AC (14 +/- BULK LBS PER ACRE, BAGS = 45 LBS, USE 1 BAG EVERY 3 ACRES). 10.5 Pls#/ac @ $49 per acre.	OCTOBER, 4TH QUARTER	2.b) THE SOIL AMENDMENT PROCESS SUMMARY FOR CULVERTS, DRAINAGE AREAS, AND SIMILAR AREAS NOT ACCESIBLE BY A TRACTOR INCLUDE:o CONTOUR AREA WITH RAKE/SHOVEL TO ORIGINAL STATE. o SPREAD APPROPRIATE FERTILIZER IN CONTOURED AREA. o SEED AREA WITH HYDRO-SEEDING UNIT OR PORTABLE SEEDING UNIT (CAMECO APPROVED SEED MIX & 1 ANNUAL CROP - OATS). o SPRAY OR RAKE SEED INTO DISTURBED AREA. o INSTALL "EROSION BLANKETS," "WATTLES", OR "SEDIMENT STOP" OVER SEEDED AREA.SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). 10.5 Pls#/ac @ $49 per acre, BONDED FIBER MATRIX = $1,100.22 COST PER ACRE	10.5 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	FERTILIZER = $91.88 COST PER ACRE; BONDED FIBER MATRIX = $1,100.22 COST PER ACRE	
													MINE UNIT K-NORTH RECLAMATION TOTAL:	0.17
603 PERMIT	SRHUP#9 DDW PAD LOCATION	WELLFIELD	INTERIM	189,500.74	4.35	YES	6"	2010C SEED MIX: 5.6 PLS Western Wheatgrass, Rosanna 0.1 PLS Canby Bluegrass 0.3 PLS Sheeps Fescue, Covar 1.4 PLS Sand Bluestem 1.1 PLS Prairie Sandreed 0.02 PLS Gardner Saltbush 1.8 PLS Sideoats Grama; TOTAL = 10.32 Pls#/ac @ $106 per acre.	OCTOBER, 4th QUARTER 2010	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2010C SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 10.32 Pls#/ac @ $106 per acre.	10.32 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
SRHUP NO.9 DDW	SRHUP#9 DDW PIPELINE & FIBER ROUTE	WELLFIELD	INTERIM	130,531.78	3.00	NO	N/A	2010C SEED MIX: 5.6 PLS Western Wheatgrass, Rosanna 0.1 PLS Canby Bluegrass 0.3 PLS Sheeps Fescue, Covar 1.4 PLS Sand Bluestem 1.1 PLS Prairie Sandreed 0.02 PLS Gardner Saltbush 1.8 PLS Sideoats Grama; TOTAL = 10.32 Pls#/ac @ $106 per acre.	NOVEMBER, 4th QUARTER 2010	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2010C SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 10.32 Pls#/ac @ $106 per acre.	10.32 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
	12) RESEED STOCKPILE NO. 94 SOURCE: DDW #9 ROAD AND PAD; COMPLETED RESEEDING WITH HYDRO-SEEDER ON 10-20-2010.	FACILITY	INTERIM	6,659.85	0.15	NO	N/A	2010B SEED MIX: Western Wheatgrass, Rosana 2.47 Slender Wheatgrass 1.71 Linn Perennial Rye 1.23 Indian Ricegrass 1.23 Blue Grama 2.47 Little Bluestem 1.08 Gardner Saltbrush .31 Total 10.5 PLS # / AC $48.00/AC (14 +/- BULK LBS PER ACRE, BAGS = 45 LBS, USE 1 BAG EVERY 3 ACRES). 10.5 Pls#/ac @ $49 per acre.	MAY, 2ND QUARTER 2011	2.b) THE SOIL AMENDMENT PROCESS SUMMARY FOR CULVERTS, DRAINAGE AREAS, AND SIMILAR AREAS NOT ACCESIBLE BY A TRACTOR INCLUDE:o CONTOUR AREA WITH RAKE/SHOVEL TO ORIGINAL STATE. o SPREAD APPROPRIATE FERTILIZER IN CONTOURED AREA. o SEED AREA WITH HYDRO-SEEDING UNIT OR PORTABLE SEEDING UNIT (CAMECO APPROVED SEED MIX & 1 ANNUAL CROP - OATS). o SPRAY OR RAKE SEED INTO DISTURBED AREA. o INSTALL "EROSION BLANKETS," "WATTLES", OR "SEDIMENT STOP" OVER SEEDED AREA.SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). 10.5 Pls#/ac @ $49 per acre, BONDED FIBER MATRIX = $1,100.22 COST PER ACRE	10.5 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	FERTILIZER = $91.88 COST PER ACRE; BONDED FIBER MATRIX = $1,100.22 COST PER ACRE	
													SRHUP NO.9 DDW RECLAMATION TOTAL:	7.50
MINE UNIT C - 603 PERMIT	15) RESEED STOCKPILE NO. 92 - SELENIUM PLANT INSTALLATION	FACILITY	INTERIM	10,441.85	0.24	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	05/05/2011, 2ND QUARTER 2011	2.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR CULVERTS, DRAINAGE AREAS, AND SIMILAR AREAS NOT ACCESIBLE BY A TRACTOR INCLUDE:o CONTOUR AREA WITH RAKE/SHOVEL TO ORIGINAL STATE. o SPREAD APPROPRIATE FERTILIZER IN CONTOURED AREA. o SEED AREA WITH PORTABLE SEEDING UNIT (CAMECO APPROVED SEED MIX & 1 ANNUAL CROP - OATS). o RAKE SEED INTO DISTURBED AREA. o INSTALL "EROSION BLANKETS," "WATTLES", OR "SEDIMENT STOP" OVER SEEDED AREA.SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	FERTILIZER ONLY = $91.88 COST PER ACRE	
	14) RESEED STOCKPILE NO. 93 - ENLARGED PILE #18 FOR SELENIUM PLANT INSTALLATION	FACILITY	INTERIM	7,076.69	0.16	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	MAY, 2ND QUARTER 2011	2.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR CULVERTS, DRAINAGE AREAS, AND SIMILAR AREAS NOT ACCESIBLE BY A TRACTOR INCLUDE:o CONTOUR AREA WITH RAKE/SHOVEL TO ORIGINAL STATE. o SPREAD APPROPRIATE FERTILIZER IN CONTOURED AREA. o SEED AREA WITH PORTABLE SEEDING UNIT (CAMECO APPROVED SEED MIX & 1 ANNUAL CROP - OATS). o RAKE SEED INTO DISTURBED AREA. o INSTALL "EROSION BLANKETS," "WATTLES", OR "SEDIMENT STOP" OVER SEEDED AREA.SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	FERTILIZER ONLY = $91.88 COST PER ACRE	
													MINE UNIT C RECLAMATION TOTAL:	0.40
	Restoration Mine Unit D, HH D-5	WELLFIELD	INTERIM	41,983.25	0.96	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	APRIL, 2ND QUARTER 2011	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2011A SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	

Table 4-1 INTERIM RECLAMATION ACTIVITIES
2010-2011 ANNUAL REPORT PERMIT 603

	MINE UNIT/LOCATION	TYPE OF DISTURBANCE (ROAD, WELLFIELD, SPILL AREA, ETC.)	RECLAMATION TYPE (INTERIM OR PERMANENT)	AREA SQ FT	MINE ACRES	TOPSOIL APPLICATION (YES/NO)	TOPSOIL APPLICATION DEPTH (INCHES = ")	TYPE OF SEED	SEEDING DATES	SEEDING PROCEDURE	RATE OF SEED APPLICATION	TYPE & RATE OF FERTILIZER	TYPE & RATE OF MULCH APPLIED	ACRES RECLAIMED IN 2010-11 BY MINE UNIT
MINE UNIT D - 603 PERMIT	Restoration Mine Unit D, HH D-4	WELLFIELD	INTERIM	25,145.76	0.58	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	APRIL, 2ND QUARTER 2011	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2011A SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
	Restoration Mine Unit D, HH D-2	WELLFIELD	INTERIM	7,502.82	0.17	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	APRIL, 2ND QUARTER 2011	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2011A SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
	Restoration Mine Unit D, HH D-1	WELLFIELD	INTERIM	108,200.51	2.48	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	APRIL, 2ND QUARTER 2011	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2011A SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
													MINE UNIT D RECLAMATION TOTAL:	4.20
MINE UNIT E - 603 PERMIT	RESTORATION MINE UNIT E HH E-18 TO 14, HH E-12 & E-13 AREA RECLAMATION	WELLFIELD	INTERIM	730,444.63	16.77	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	APRIL, 2ND QUARTER 2011	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2011A SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
	13) RESEED STOCKPILE NO. 95 - DRILLER STAGING PAD BY E-15 FOR RSTN WELLS	WELLFIELD	INTERIM	1,353.56	0.03	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	MAY, 2ND QUARTER 2011	2.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR CULVERTS, DRAINAGE AREAS, AND SIMILAR AREAS NOT ACCESIBLE BY A TRACTOR INCLUDE:o CONTOUR AREA WITH RAKE/SHOVEL TO ORIGINAL STATE. o SPREAD APPROPRIATE FERTILIZER IN CONTOURED AREA. o SEED AREA WITH PORTABLE SEEDING UNIT (CAMECO APPROVED SEED MIX & 1 ANNUAL CROP - OATS). o RAKE SEED INTO DISTURBED AREA. o INSTALL "EROSION BLANKETS," "WATTLES", OR "SEDIMENT STOP" OVER SEEDED AREA.SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	FERTILIZER ONLY = $91.88 COST PER ACRE	
	STOCKPILE NO.30; ADDED BELL HOLE TIE-IN SEDIMENT IN FALL OF 2010	WELLFIELD	INTERIM	7,322.10	0.17	NO	N/A	2011A SEED MIX: Pls#/ac: Canby Bluegrass - 2, Linn Perennial Rye - 3, Prairie June Grass - 2, Blue Grama - 1, Sideoats Grama - 1, Little Bluestem - 1, Gardner Saltbrush - 1. Total = 11Pls#/ac, Bulk 15Lbs per acre bag 1 @ $105 PER ACRE.	MAY, 2ND QUARTER 2011	2.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR CULVERTS, DRAINAGE AREAS, AND SIMILAR AREAS NOT ACCESIBLE BY A TRACTOR INCLUDE:o CONTOUR AREA WITH RAKE/SHOVEL TO ORIGINAL STATE. o SPREAD APPROPRIATE FERTILIZER IN CONTOURED AREA. o SEED AREA WITH PORTABLE SEEDING UNIT (CAMECO APPROVED SEED MIX & 1 ANNUAL CROP - OATS). o RAKE SEED INTO DISTURBED AREA. o INSTALL "EROSION BLANKETS," "WATTLES", OR "SEDIMENT STOP" OVER SEEDED AREA.SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). 11 Pls#/ac @ $105 per acre.	11 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	FERTILIZER ONLY = $91.88 COST PER ACRE	
													MINE UNIT E RECLAMATION TOTAL:	16.97
VOLLMAN 33-27 DDW - 603 PERMIT	VOLLMAN 33-27 DDW INFRASTRUCTURE ROUTE	WELLFIELD	INTERIM	116,628.43	2.68	NO	N/A	2010C SEED MIX: 5.6 PLS Western Wheatgrass, Rosanna 0.1 PLS Canby Bluegrass 0.3 PLS Sheeps Fescue, Covar 1.4 PLS Sand Bluestem 1.1 PLS Prairie Sandreed 0.02 PLS Gardner Saltbush 1.8 PLS Sideoats Grama; TOTAL = 10.32 Pls#/ac @ $106 per acre.	NOVEMBER, 4th QUARTER 2010	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2010C SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 10.32 Pls#/ac @ $106 per acre.	10.32 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
	VOLLMAN 33-27 DDW PAD LOCATION	WELLFIELD	INTERIM	98,982.75	2.27	YES	6"	2010C SEED MIX: 5.6 PLS Western Wheatgrass, Rosanna 0.1 PLS Canby Bluegrass 0.3 PLS Sheeps Fescue, Covar 1.4 PLS Sand Bluestem 1.1 PLS Prairie Sandreed 0.02 PLS Gardner Saltbush 1.8 PLS Sideoats Grama; TOTAL = 10.32 Pls#/ac @ $106 per acre.	NOVEMBER, 4th QUARTER 2010	1.a) THE SOIL AMENDMENT PROCESS SUMMARY FOR TRACTOR ACCESSIBLE AREAS INCLUDE:o CONTOUR AREA TO ORIGINAL STATE. o DISC DISTURBED AREA o SPREAD APPROPRIATE FERTILIZER IN DISCED AREA - (18-46-0 Fertilizer) 200LBS PER ACRE o DRILL-SEED CAMECO APPROVED 2010C SEED MIX & 1 ANNUAL CROP (OATS). (10-14 PLS LBS PER ACRE = 17-20 GROSS LBS). o BROADCAST STRAW OVER SEEDED AREA WITH HAYBUSTER UNIT. o CRIMP STRAW MULCH INTO SEEDED AREA WITH WISHEK STRAWPRESS UNIT. 10.32 Pls#/ac @ $106 per acre.	10.32 Pls#/ac	Fertilizer (18-46-0 Fertilizer) 200LBS PER ACRE (1 x 50 Lb. bag per 10,000 ft, 4 x bags per acre = 200 Lbs)	200LBS FERTLIZER (4 BAGS) & 6 ROUND BALES = $391.88 COST PER ACRE	
													VOLLMAN 33-27 DDW RECLAMATION TOTAL:	4.99

Table 4-1 INTERIM RECLAMATION ACTIVITIES
2010-2011 ANNUAL REPORT PERMIT 603

MINE UNIT/LOCATION	TYPE OF DISTURBANCE (ROAD, WELLFIELD, SPILL AREA, ETC.)	RECLAMATION TYPE (INTERIM OR PERMANENT)	AREA SQ FT	MINE ACRES	TOPSOIL APPLICATION (YES/NO)	TOPSOIL APPLICATION DEPTH (INCHES = ")	TYPE OF SEED	SEEDING DATES	SEEDING PROCEDURE	RATE OF SEED APPLICATION	TYPE & RATE OF FERTILIZER	TYPE & RATE OF MULCH APPLIED	ACRES RECLAIMED IN 2010-11 BY MINE UNIT
									603 PERMIT RECLAMATION TOTAL:				34.23

TABLE 7-1

SATELLITE NO. 1
LAND APPLICATION FACILITY (IRRIGATOR #1)
ANNUAL VEGETATION DATA
2010-2011 ANNUAL REPORT PERMIT 603

SAMPLE SITE SAMPLE DATE		Quarter 1 (NW) 20-Aug-10	Quarter 2 (NE) 20-Aug-10	Quarter 3 (SE) 20-Aug-10	Quarter 4 (SW) 20-Aug-10	Background 20-Aug-10
TRACE METALS (mg/kg): SW6020 Dry Ash Extracted	Lower Limit of Detection					
Arsenic	0.05	0.7	ND	ND	ND	0.6
Barium	0.05	55.60	36.90	38.90	34.70	78.90
Boron	5	14	10	11	13	10
Selenium	0.05	18.90	20.50	20.50	15.20	2.10
RADIOMETRIC (µCi/kg): E903.0						
U-Nat		6.8E-03	2.2E-03	7.7E-03	4.2E-03	9.0E-04
U-Nat RL		1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04
Ra226		2.5E-04	3.4E-04	1.8E-04	2.0E-04	1.3E-04
Ra226 ERR. EST. +/-		1.0E-05	1.2E-05	6.4E-06	7.1E-06	5.5E-06
Ra226 MDC		2.2E-06	1.9E-06	8.5E-07	1.3E-06	9.0E-07

TABLE 7-2

SATELLITE NO. 2
LAND APPLICATION FACILITY (IRRIGATOR #2)
ANNUAL VEGETATION DATA
2010-2011 ANNUAL REPORT PERMIT 603

SAMPLE SITE SAMPLE DATE		Quarter 1 (NW) 26-Aug-10	Quarter 2 (NE) 26-Aug-10	Quarter 3 (SE) 26-Aug-10	Quarter 4 (SW) 26-Aug-10	Background 26-Aug-10
TRACE METALS (mg/kg): SW6020 Dry Ash Extracted	Lower Limit of Detection					
Arsenic	0.05	ND	ND	ND	ND	ND
Barium	0.05	18.60	13.70	8.20	10.04	30.00
Boron	5	14	12	9	13	5
Selenium	0.05	1.4	1.80	1.00	1.40	0.50
RADIOMETRIC (µCi/kg): E903.0						
U-Nat		1.4E-02	1.6E-02	5.8E-03	1.1E-02	5.0E-04
U-Nat RL		3.0E-04	3.0E-04	3.0E-04	3.0E-04	3.0E-04
Ra226		6.3E-05	7.3E-05	4.7E-05	4.4E-05	1.6E-04
Ra226 ERR. EST. +/-		4.9E-06	6.9E-06	5.1E-06	5.2E-06	8.2E-06
Ra226 MDC		1.6E-06	2.7E-06	2.3E-06	2.5E-06	1.8E-06

TABLE 7-4

SATELLITE NO. 2 LAND APPLICATION FACILITY (IRRIGATOR NO. 2) - IRRIGATION FLUID DATA
2010-2011 ANNUAL REPORT PERMIT 603

IRRIGATION CYCLE		Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
VOLUME (AF)		36.27	21.00								
DATE SAMPLED		14-Jul-11	12-Aug-11								
MAJOR IONS (mg/L)	REP. LIMIT										
Ca	1.0	287	292								
Mg	1.0	99	104								
Na	1.0	76	79								
K	1.0	25.0	24.0								
HCO_3	1.0	212	202					IRRIGATOR DID			
SO_4	1.0	710	758								
Cl	1.0	355	371					NOT			
NON-METALS								OPERATE			
TDS @ 180° C (mg/L)	10.0	1970	1910								
pH (standard units)	0.010	7.9	8.09								
SAR	0.01	0.01	1								
TRACE METALS (mg/L)											
As	0.001	ND	0.001								
Ba	0.1	ND	ND								
B	0.10	0.20	0.20								
Se	0.001	0.015	0.009								
RADIOMETRIC											
U-nat (uCi/mL)	2.03E-10	2.20E-07	1.67E-07								
Ra-226 (uCi/mL)	2.00E-10	5.70E-10	5.80E-09								
Ra Err. Est. +/-		1.80E-10	4.70E-10								

TABLE 7-5
SATELLITE NO. 1 LAND APPLICATION FACILITY (Irrigator No. 1)
FLUID VOLUMES APPLIED
2010-2011 ANNUAL REPORT PERMIT 603

Irrigation Cycle	Fluid Volumes Applied (AF)	Irrigation Cycle	Fluid Volumes Applied (AF)
Aug 16-Nov 14, 1989	20.9	Nov 16-Nov 30, 1995	2.9
Jul 25-Aug 4, 1990	9.4	Dec 1-Dec 13, 1995	4.3
Apr 28-Jun 5, 1991	20.9	Apr 1-Apr 30, 1996	12.4
Jun 7-10, 1991	2.9	May 1-Jul 10, 1996	27.3
Jul 3-4, 1991	0.9	Jul 11-Sep 11, 1996	30.6
Jul 8-Aug 9, 1991	31.2	Sep 12-Dec 12, 1996	14.2
Sep 30-Oct 23, 1991	19.9	Mar 12-Mar 21, 1997	2.8
Dec 24-Dec 30, 1991	5.7	Apr 3-May 6, 1997	1.7
Jan 28-Mar 5, 1992	21	May 7-Jun 2, 1997	10.2
Mar 24-Apr 6, 1992	13.1	Jun 3-Jul 2, 1997	15.1
Apr 29-May 31, 1992	25.8	Jul 3-Jul 25, 1997	12.2
Jun 1-Jul 2, 1992	23.1	Aug 15-Aug 30, 1997	7.5
Jul 6-Jul 29, 1992	21.1	Sep 2-Sep 28, 1997	11.2
Aug 7-Sep 26, 1992	18.9	Oct 1-Oct 30, 1997	11.4
Oct 6-Oct 13, 1992	7.2	Nov 3-Nov 25, 1997	2.4
Oct 19-Oct 30, 1992	11.8	April-December 1998	87.5
Jan 20-Feb 8, 1993	11	March-December 1999	67.3
Mar 2-Mar 16, 1993	8.5	January-June 2000	40.7
Apr 16-May 28, 1993	22.1	July-October 2000	47
Jun 2-Jul 23, 1993	22.7	Jan-01	3
Jul 26-Aug 20, 1993	10	March-April 2001	8.1
Sep 1-Oct 5, 1993	22.9	June-November 2001	57.8
Oct 6-Oct 29, 1993	19.7	Apr 2002-Jan 2004	122.2
Dec 29, 1993-Jan 28, 1994	5.2	April-October 2004	85.6
Feb 2-Feb 28, 1994	2.2	April – October 2005	0
Mar 1-Mar 31, 1994	9.3	April – October 2006	0
Apr 1-Apr 30, 1994	10.7	April – October 2007	0
May 1-May 31, 1994	16.7	April - October 2008	0
Jun 1-Jul 1, 1994	2.3	April - October 2009	0
Jul 1-Aug 2, 1994	20.6	April - October 2010	0
Aug 2-Aug 31, 1994	21.5	April 2011	0
Sep 1-Sep 30, 1994	20.3	**TOTAL**	1167
Oct 1-Oct 27, 1994	2.6		
Nov 1-Nov 30, 1994	2.9		
Sep 6-Sep 27, 1995	8.7		
Oct 2-Oct 20, 1995	11.7		

TABLE 7-6
SATELLITE NO. 2 LAND APPLICATION FACILITY (Irrigator No. 2)
FLUID VOLUMES APPLIED
2009-2010 ANNUAL REPORT PERMIT 603

Irrigation Cycle	Fluid Volumes Applied (AF)
Sep 1-Sep 23, 1995	32.2
Oct 6-Oct 30, 1995	22.7
Mar 20-Jun 30, 1996	35.7
May 14-Jul 2, 1996	36.1
Aug 1-Aug 28, 1996	28.1
Sep 10-Oct 15, 1996	16.2
Aug 21-Sep 19, 1997	60.2
June-December 1998	102.5
June-November 1999	130.4
April-June 2000	45.8
July-September 2000	67.6
May-September 2001	156.6
June-September 2002	80.7
June-October 2003	134.0
June-October 2004	28.1
June – October 2005	82.1
June – October 2006	117.9
June – October 2007	132.1
May - October 2008	123.6
May - October 2009	165.9
May-October 2010	57.3
TOTAL	1655.8

Irrigation won't begin for 2011 until May

TABLE 7-7
LAND APPLICATION FACILITY (IRRIGATOR 1)
ANNUAL SOIL DATA
2010-2011 ANNUAL REPORT PERMIT 603

SAMPLE ID	SAMPLE DATE	CONDUCTIVITY SAT. PASTE (mmhos/cm)	CALCIUM SOLUBLE (meq/L)	MAGNESIUM SOLUBLE (meq/L)	SODIUM SOLUBLE (meq/L)	SAR	pH SAT. PASTE (std. Units)	Sat %	ARSENIC ABDTPA (mg/kg-dry)	BARIUM ABDTPA (mg/kg-dry)	SELENIUM ABDTPA (mg/kg-dry)	POTASSIUM SOLUBLE (mg/kg-dry)	BORON ABDTPA (mg/kg-dry)	RADIUM 226 (µCi/g-dry)	TOTAL ERROR ESTIMATE± (pCi/g-dry)	Uranium mg/kg	URANIUM - NATURAL TOTAL (µCi/g-dry)
S.E. Location 1 0-6"	8/20/10	0.62	2.62	1.29	1.22	0.9	6.5	42.7	0.10	2.6	0.26	7.82	3.7	1.10E-06	0.2	24.6	1.67E-05
S.E. Location 1 6-12"	8/20/10	0.64	1.69	0.85	2.74	2.4	6.4	35.8	0.07	2.7	0.11	5.57	2.1	8.00E-07	0.1	8.9	6.03E-06
S.E. Location 2 0-6"	8/20/10	0.70	3.93	1.70	0.85	0.5	6.7	66.4	0.14	2.1	0.96	12.5	5.8	1.50E-06	0.2	19.4	1.31E-05
S.E. Location 2 6-12"	8/20/10	0.45	1.99	0.76	1.32	1.1	7.4	50.9	0.05	2.6	0.15	4.37	2.6	1.20E-06	0.2	3.4	2.30E-06
S.E. Location 3 0-6"	8/20/10	0.42	1.29	0.67	1.48	1.5	6.6	84.6	0.15	1.6	0.41	11.0	2.6	1.50E-06	0.2	19.0	1.29E-05
S.E. Location 3 6-12"	8/20/10	0.31	0.59	0.36	1.65	2.4	6.7	80.1	0.11	2.2	0.37	5.02	2.3	1.40E-06	0.2	3.8	2.57E-06
S.W. Location 4 0-6"	8/20/10	0.43	1.65	0.84	1.29	1.2	6.6	85.2	0.14	2.4	0.62	8.67	2.3	1.70E-06	0.2	25.1	1.70E-05
S.W. Location 4 6-12"	8/20/10	0.52	1.67	0.90	2.48	2.2	7.1	84.2	0.11	3.3	0.32	4.14	3.7	1.60E-06	0.2	3.4	2.30E-06
S.W. Location 5 0-6"	8/20/10	0.65	2.26	1.13	1.53	1.2	5.7	43.0	0.11	2.0	0.34	10.1	2.3	1.10E-06	0.2	11.8	7.99E-06
S.W. Location 5 6-12"	8/20/10	0.38	0.83	0.48	2.07	2.6	6.1	70.5	0.10	2.2	0.10	5.16	3.4	1.70E-06	0.2	2.9	1.96E-06
S.W. Location 6 0-6"	8/20/10	0.37	1.17	0.60	1.51	1.6	6.0	67.2	0.08	1.5	0.33	6.39	2.3	1.50E-06	0.2	16.7	1.13E-05
S.W. Location 6 6-12"	8/20/10	0.28	0.86	0.48	1.97	2.4	6.8	69.0	0.09	2.2	0.27	3.06	2.3	1.60E-06	0.2	5.1	3.45E-06
S.W. Location 7 0-6"	8/20/10	0.53	2.04	0.97	2.13	1.7	6.4	65.9	0.12	2.3	0.40	7.32	2.3	1.50E-06	0.2	19.0	1.29E-05
S.W. Location 7 6-12"	8/20/10	1.21	5.79	2.68	4.85	2.4	7.4	75.6	0.06	3.1	0.17	4.28	2.2	1.60E-06	0.2	4.3	2.91E-06
N.W. Location 8 0-6"	8/20/10	0.24	0.46	0.24	0.95	1.6	6.4	64.0	0.11	2.0	0.27	3.59	2.2	1.50E-06	0.2	20.0	1.35E-05
N.W. Location 8 6-12"	8/20/10	0.99	3.54	1.84	4.40	2.7	7.3	82.6	0.08	2.9	0.15	5.46	2.5	1.40E-06	0.2	2.8	1.90E-06
N.W. Location 9 0-6"	8/20/10	0.28	0.67	0.36	1.38	1.9	7.0	75.8	0.13	3.0	0.45	5.31	2.8	1.60E-06	0.2	8.7	5.89E-06
N.W. Location 9 6-12"	8/20/10	0.53	1.45	0.78	2.83	2.7	7.5	79.3	0.08	4.7	0.32	4.27	2.9	1.60E-06	0.2	2.2	1.49E-06
N.W. Location 10 0-6"	8/20/10	0.21	0.76	0.40	1.58	2.1	5.8	64.4	0.14	2.5	0.32	5.66	2.6	1.70E-06	0.2	21.3	1.44E-05
N.W. Location 10 6-12"	8/20/10	0.89	2.90	1.64	4.15	2.8	7.4	82.9	0.05	3.0	0.19	6.79	2.4	2.00E-06	0.2	4.0	2.71E-06
N.E. Location 11 0-6"	8/20/10	0.39	1.69	0.83	0.96	0.9	6.2	47.6	0.10	2.5	0.37	6.62	2.2	1.30E-06	0.2	29.8	2.02E-05
N.E. Location 11 6-12"	8/20/10	0.71	3.17	1.13	3.06	2.1	7.4	62.3	0.03	3.3	0.12	5.86	2.4	1.60E-06	0.2	2.2	1.49E-06
N.E Location 12 0-6"	8/20/10	0.40	1.48	0.77	1.37	1.3	6.5	79.1	0.13	2.7	0.36	11.8	2.6	1.50E-06	0.2	21.9	1.48E-05
N.E. Location 12 6-12"	8/20/10	0.29	0.82	0.47	1.88	2.3	6.5	75.2	0.11	3.4	0.21	4.99	2.2	1.40E-06	0.2	4.1	2.78E-06
N.E. Location 13 0-6"	8/20/10	0.48	1.81	0.90	2.09	1.8	7.4	68.8	0.07	2.8	0.07	4.48	2.1	1.50E-06	0.2	4.4	2.98E-06
N.E. Location 13 6-12"	8/20/10	0.58	1.59	0.93	3.26	2.9	7.8	74.1	0.04	3.1	0.19	1.88	3.8	1.80E-06	0.2	2.6	1.76E-06
N.E. Location 14 0-6"	8/20/10	0.23	0.80	0.49	1.43	1.8	6.7	59.4	0.11	3.4	0.18	3.24	2.6	1.60E-06	0.2	5.1	3.45E-06
N.E. Location 14 6-12"	8/20/10	0.68	1.91	1.35	3.36	2.6	7.3	69.7	0.10	3.2	0.10	2.05	2.9	1.40E-06	0.2	2.9	1.96E-06
Average 0-6"	8/20/10	0.43	1.62	0.80	1.41	1.4	6.5	65.3	0.12	2.4	0.38	7.46	2.7	1.47E-06		17.6	1.19E-05
Average 6-12"	8/20/10	0.60	2.06	1.05	2.86	2.4	7.1	70.9	0.08	3.0	0.20	4.49	2.7	1.51E-06		3.8	2.54E-06
Background 0-6"	8/20/10	0.30	0.30	0.87	0.32	0.3	6.8	54.6	0.08	10.9	0.05	2.19	1.5	1.80E-06	0.2	2.2	1.49E-06
Background 6-12"	8/20/10	0.57	0.57	1.47	1.42	1.0	7.2	61.7	0.05	12.5	0.03	3.27	1.8	1.30E-06	0.2	2.3	1.56E-06

TABLE 7-8
LAND APPLICATION FACILITY (IRRIGATOR 2)
ANNUAL SOIL DATA
2010-2011 ANNUAL REPORT PERMIT 603

SAMPLE ID	SAMPLE DATE	CONDUCTIVITY SAT. PASTE (mmhos/cm)	CALCIUM SOLUBLE (meq/L)	MAGNESIUM SOLUBLE (meq/L)	SODIUM SOLUBLE (meq/L)	SAR	pH SAT. PASTE (std. Units)	Sat %	ARSENIC ABDTPA (mg/kg-dry)	BARIUM ABDTPA (mg/kg-dry)	SELENIUM ABDTPA (mg/kg-dry)	POTASSIUM SOLUBLE (mg/kg-dry)	BORON ABDTPA (mg/kg-dry)	RADIUM 226 (µCi/g-dry)	TOTAL ERROR ESTIMATE± (µCi/g-dry)	Uranium mg/kg	URANIUM - NATURAL TOTAL (µCi/g-dry)
Location 1 0-6"	8/26/10	3.39	27.7	13.7	4.6	1.0	6.3	67.4	0.08	1.1	0.28	12.2	1.4	1.50E-06	2.00E-07	5.1	3.45E-06
Location 1 6-12"	8/26/10	3.72	26.9	14.8	8.0	1.8	6.4	81.3	0.07	0.6	0.20	7.62	1.3	1.70E-06	2.00E-07	3.0	2.03E-06
Location 2 0-6"	8/26/10	0.96	4.60	2.67	2.31	1.2	6.5	81.6	0.07	1.9	0.11	6.37	1.4	2.00E-06	2.00E-07	3.1	2.10E-06
Location 2 6-12"	8/26/10	1.98	11.9	6.96	4.64	1.5	6.9	82.4	0.06	1.2	0.10	5.65	1.6	2.00E-06	2.00E-07	1.8	1.22E-06
Location 3 0-6"	8/26/10	1.96	13.0	5.80	3.21	1.0	7.5	76.7	0.03	2.2	0.11	7.13	1.5	1.50E-06	2.00E-07	6.4	4.33E-06
Location 3 6-12"	8/26/10	2.98	23.7	9.99	6.52	1.6	7.6	77.6	0.02	1.3	0.15	6.17	1.3	1.70E-06	2.00E-07	3.0	2.03E-06
Location 4 0-6"	8/26/10	1.66	10.0	5.02	2.73	1.0	6.9	60.5	0.05	1.4	0.22	9.73	1.0	1.30E-06	2.00E-07	9.0	6.09E-06
Location 4 6-12"	8/26/10	1.81	11.6	5.43	2.85	1.0	7.0	69.8	0.08	1.8	0.62	15.5	1.3	1.60E-06	2.00E-07	14.7	9.95E-06
Location 5 0-6"	8/26/10	2.12	13.5	6.62	3.84	1.2	7.3	47.4	0.04	2.8	0.26	10.8	1.0	1.30E-06	2.00E-07	5.0	3.39E-06
Location 5 6-12"	8/26/10	2.03	12.3	6.44	3.24	1.1	7.2	43.7	0.03	2.2	0.20	7.06	0.8	1.10E-06	2.00E-07	3.0	2.03E-06
Location 6 0-6"	8/26/10	0.97	5.48	2.50	2.24	1.1	7.2	71.7	0.04	2.2	0.08	4.07	1.2	1.60E-06	2.00E-07	2.8	1.90E-06
Location 6 6-12"	8/26/10	1.57	10.6	4.06	3.73	1.4	7.3	70.8	0.03	1.6	0.07	4.08	1.1	1.00E-06	2.00E-07	1.9	1.29E-06
Location 7 0-6"	8/26/10	2.94	22.3	11.5	4.75	1.2	6.2	76.6	0.07	1.0	0.18	17.5	1.3	1.50E-06	2.00E-07	4.8	3.25E-06
Location 7 6-12"	8/26/10	3.56	26.0	15.8	7.0	1.5	6.3	81.6	0.05	0.6	0.17	11.0	1.4	1.80E-06	2.00E-07	2.6	1.76E-06
Location 8 0-6"	8/26/10	2.23	15.2	7.65	3.87	1.1	6.5	70.5	0.07	1.3	0.12	10.3	1.3	2.10E-06	2.00E-07	5.6	3.79E-06
Location 8 6-12"	8/26/10	2.69	20.5	11.9	4.30	1.1	7.2	75.5	0.04	1.3	0.09	5.71	1.9	1.70E-06	2.00E-07	1.8	1.22E-06
Location 9 0-6"	8/26/10	1.52	9.14	5.08	3.33	1.2	6.5	68.4	0.07	1.2	0.14	5.87	1.7	1.90E-06	2.00E-07	7.7	5.21E-06
Location 9 6-12"	8/26/10	3.10	22.7	14.0	6.38	1.5	6.8	76.1	0.06	0.9	0.11	5.91	2.7	1.90E-06	2.00E-07	2.9	1.96E-06
Location 10 0-6"	8/26/10	3.69	26.9	16.2	6.7	1.5	6.9	67.1	0.05	0.4	0.21	7.02	1.6	1.60E-06	2.00E-07	7.8	5.28E-06
Location 10 6-12"	8/26/10	4.12	27.0	16.1	11.5	2.5	7.3	67.8	0.02	0.9	0.28	6.70	1.7	1.30E-06	2.00E-07	5.9	3.99E-06
Location 11 0-6"	8/26/10	1.97	11.4	6.23	3.19	1.1	6.9	79.6	0.08	1.4	0.32	17.7	2.0	6.00E-07	2.00E-07	8.5	5.75E-06
Location 11 6-12"	8/26/10	1.93	11.6	6.76	4.53	1.5	7.0	79.2	0.06	1.2	0.23	6.26	1.7	1.40E-06	2.00E-07	3.2	2.17E-06
Location 12 0-6"	8/26/10	2.78	17.9	8.63	3.65	1.0	6.8	41.7	0.05	1.8	0.18	10.9	1.6	8.00E-07	2.00E-07	9.1	6.16E-06
Location 12 6-12"	8/26/10	0.93	4.24	2.23	2.09	1.2	6.8	53.4	0.06	2.0	0.06	2.45	1.2	9.00E-07	2.00E-07	1.3	8.80E-07
Location 13 0-6"	8/26/10	1.24	6.43	3.56	2.18	1.0	6.4	50.0	0.08	1.5	0.14	6.21	1.4	1.00E-06	2.00E-07	2.3	1.56E-06
Location 13 6-12"	8/26/10	0.65	2.80	1.71	1.93	1.3	6.6	58.3	0.08	1.5	0.11	2.79	1.3	1.10E-06	2.00E-07	1.6	1.08E-06
Location 14 0-6"	8/26/10	3.51	28.3	13.3	5.0	1.1	7.1	67.5	0.06	1.0	0.20	7.67	1.7	1.20E-06	2.00E-07	7.3	4.94E-06
Location 14 6-12"	8/26/10	3.49	27.2	13.6	6.0	1.3	7.1	55.6	0.03	0.8	0.15	3.49	1.4	8.00E-07	2.00E-07	2.6	1.76E-06
Location 15 0-6"	8/26/10	3.09	14.8	7.5	2.8	0.8	6.7	65.7	0.08	1.5	0.15	7.58	1.5	1.20E-06	2.00E-07	4.2	2.84E-06
Location 15 6-12"	8/26/10	3.06	25.0	12.7	4.8	1.1	6.8	68.7	0.07	1.0	0.13	6.71	1.2	1.50E-06	2.00E-07	2.7	1.83E-06
Location 16 0-6"	8/26/10	3.07	27.7	9.2	3.8	0.9	7.8	60.0	0.05	1.9	0.15	9.08	1.6	9.00E-07	2.00E-07	4.2	2.84E-06
Location 16 6-12"	8/26/10	2.98	27.1	11.3	4.38	1.0	7.8	58.1	0.03	1.7	0.14	5.14	1.6	1.00E-06	2.00E-07	3.8	2.57E-06
Average 0-6"	8/26/10	2.32	15.9	7.84	3.6	1.1	6.8	65.8	0.06	1.5	0.18	9.38	1.5	1.38E-06		5.8	3.93E-06
Average 6-12"	8/26/10	2.54	18.2	9.61	5.1	1.4	7.0	68.7	0.05	1.3	0.18	6.39	1.5	1.41E-06		3.5	2.36E-06
Background 0-6"	8/26/10	0.34	3.09	0.64	0.12	<0.1	7.7	37.6	0.03	1.2	0.01	1.11	1.2	6.00E-07	1.0E-07	2.0	1.35E-06
Background 6-12"	8/26/10	0.44	3.86	1.08	0.24	0.2	7.6	43.0	0.03	1.0	0.01	1.09	1.2	1.00E-06	2.0E-07	2.5	1.69E-06

TABLE 7-9

SATELLITE NO. 2 PURGE STORAGE RESERVOIR
SHALLOW MONITORING WELLS
QUARTERLY WATER LEVEL DATA
SEMI-ANNUAL WATER QUALITY DATA
2010-2011 ANNUAL REPORT PERMIT 603

SAMPLE SITE		Shallow Well No. 1 (South)			Shallow Well No. 2 (East)		
SAMPLE DATE		22-Sep-10	18-Nov-10	17-Mar-11	22-Sep-10	18-Nov-10	17-Mar-11
WATER LEVEL (DTW)		14.8	13.2	13.9	10.2	11.3	11.2
MAJOR IONS (mg/L)	Rep. Limit						
HCO_3	1.0				401	331	294
SO_4	1.0				2420	2390	2430
Cl	1.0		NOT ENOUGH		442	409	409
NON-METALS			WATER				
Cond (µmho/cm)	1.0				5210	5090	5090
pH (standard units)	0.01		TO SAMPLE		7.47	7.5	7.3
TRACE METALS (mg/L)							
Ba	0.001				ND	ND	ND
Se	0.0025				0.039	0.036	0.029
RADIOMETRIC							
U-nat (uCi/mL)	6.77E-10				5.36E-08	4.43E-08	3.69E-08
Ra-226 (uCi/mL)	2.00E-10				7.80E-10	8.40E-10	1.10E-09
Ra-226 Err. Est. +/- (uCi/mL)					1.80E-10	1.80E-10	1.7E-10

TABLE 7-10

SATELLITE NO. 2 PURGE STORAGE RESERVOIR
NEW SHALLOW MONITORING WELLS
QUARTERLY WATER QUALITY DATA
2010-2011 ANNUAL REPORT PERMIT 603

SAMPLE SITE	MW-1S WEST			MS-2S NORTH			MW-3S SOUTH			MW-4S EAST		
SAMPLE DATE	28-Sep-10	18-Nov-10	16-Mar-11	28-Sep-10	18-Nov-10	17-Mar-11	28-Sep-10	18-Nov-10	17-Mar-11	28-Sep-10	18-Nov-10	17-Mar-11
WATER LEVEL (DTW)	28.4	29.8	20.3	22.4	23.7	22	22.6	22.7	23.2	33.4	34	23.7
MAJOR IONS (mg/L)												
HCO_3	428	368	366	381	368	363	408	396	402	553	504	497
SO_4	1920	1930	1920	231	240	248	972	1020	1040	1680	1620	1730
Cl	279	307	317	69	72	73	521	497	473	115	126	138
NON-METALS												
Cond (µmho/cm)	4340	4390	4430	1160	1180	1170	3410	3410	3370	3610	3410	3660
pH (standard units)	7.76	7.48	7.23	7.87	7.61	7.52	7.85	7.60	7.51	7.80	7.59	7.24
TRACE METALS (mg/L)												
Ba	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Se	2	2.08	2.3	0.003	0.005	0.003	0.226	0.198	0.178	0.9	0.681	0.84
RADIOMETRIC												
U-nat (uCi/mL)	4.40E-08	3.80E-08	3.40E-08	8.10E-10	1.20E-09	1.00E-09	5.70E-07	5.80E-07	5.60E-07	1.50E-07	1.90E-07	1.60E-07
Ra-226 (uCi/mL)	1.50E-09	2.90E-10	5.20E-10	7.00E-10	3.10E-10	2.00E-10	7.60E-10	2.70E-10	3.90E-10	3.50E-09	2.10E-09	2.10E-09
Ra-226 Err. Est. +/- (uCi/mL)	2.30E-10	1.20E-10	1.50E-10	1.80E-10	1.30E-10	1.90E-10	1.70E-10	1.20E-10	1.40E-10	3.50E-10	2.70E-10	1.80E-10

SELENIUM PLANT
RADIUM TREATMENT SYSTEM DISCHARGE
MONTHLY RADIUM GRAB SAMPLES
2010-2011

SAMPLE DATE	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
RADIOMETRIC										
Ra-226 (µCi/mL)	2.40E-10	5.60E-10	3.40E-10	1.30E-08	5.70E-10	8.60E-09	1.60E-09	1.10E-08	5.50E-09	7.20E-09
Ra Err. Est.+/-	1.70E-10	1.80E-10	1.60E-10	8.20E-10	1.80E-10	4.90E-10	2.30E-10	6.90E-10	5.70E-10	5.00E-10

TABLE 10-1: PERMIT #603 DELINEATION DRI' LES (APRIL1, 2010 THROUGH APRIL 30, 2011)

66000000 delineation holes

Prepared By Ken Garoutte
Operator Name Cameco Resources
Smith Ranch-Highland Operation
P.O. Box 1210, Glenrock, WY 82637

All holes capped and sealed

Mine Unit	Delineation Number	Section	Township	Range	Northing	Easting	Total Drilled Depth	Drill Completion Date	Surface Ownership
D	3673-23-139	23	36	73	880240	386266	700	4/21/2010	Numrich, et al
E	3673-22-19	22	36	73	879578	385211	640	9/29/2010	Vollman Ranches
E	3673-22-20	22	36	73	878676	384648	600	11/4/2010	Vollman Ranches
F	3673-21-1	21	36	73	878157	376633	740	3/21/2011	Vollman Ranches
F	3673-21-10	21	36	73	878791	377436	720	3/23/2011	Vollman Ranches
F	3673-21-11	21	36	73	878962	377268	720	3/23/2011	Duck Creek Ranch
F	3673-21-12	21	36	73	879035	377266	760	3/24/2011	Duck Creek Ranch
F	3673-21-13	21	36	73	879036	377366	760	3/25/2011	Duck Creek Ranch
F	3673-21-14	21	36	73	878635	378158	720	3/24/2011	Vollman Ranches
F	3673-21-15	21	36	73	878636	378271	720	3/23/2011	Vollman Ranches
F	3673-21-16	21	36	73	878742	378156	730	3/25/2011	Vollman Ranches
F	3673-21-17	21	36	73	878743	378268	720	3/25/2011	Vollman Ranches
F	3673-21-18	21	36	73	879034	377756	740	3/24/2011	Duck Creek Ranch
F	3673-21-19	21	36	73	879036	377866	740	3/25/2011	Duck Creek Ranch
F	3673-21-2	21	36	73	878309	376881	760	3/22/2011	Vollman Ranches
F	3673-21-20	21	36	73	879036	377964	740	3/25/2011	Duck Creek Ranch
F	3673-21-21	21	36	73	879041	378158	720	3/23/2011	Duck Creek Ranch
F	3673-21-23	21	36	73	879139	378063	720	3/25/2011	Duck Creek Ranch
F	3673-21-24	21	36	73	879237	378066	740	3/25/2011	Duck Creek Ranch
F	3673-21-25	21	36	73	879240	378170	740	3/28/2011	Duck Creek Ranch
F	3673-21-26	21	36	73	879402	378269	740	3/28/2011	Duck Creek Ranch
F	3673-21-28	21	36	73	878889	377247	720	3/28/2011	Duck Creek Ranch
F	3673-21-29	21	36	73	878867	377069	740	3/29/2011	Duck Creek Ranch
F	3673-21-3	21	36	73	878360	376590	760	3/21/2011	Vollman Ranches
F	3673-21-30	21	36	73	878764	377060	740	3/29/2011	Vollman Ranches
F	3673-21-4	21	36	73	878470	377019	760	3/21/2011	Vollman Ranches
F	3673-21-5	21	36	73	878598	376689	760	3/22/2011	Vollman Ranches
F	3673-21-6	21	36	73	878573	377127	742	3/22/2011	Vollman Ranches
F	3673-21-7	21	36	73	878648	377094	720	3/22/2011	Vollman Ranches
F	3673-21-8	21	36	73	878711	377364	740	3/23/2011	Vollman Ranches
F	3673-21-9	21	36	73	878795	377032	740	3/23/2011	Vollman Ranches
F	3673-28-24	28	36	73	876090	375592	800	4/5/2011	Vollman Ranches
F	3673-28-25	28	36	73	876055	375792	800	3/29/2011	Vollman Ranches

TABLE 10-1: PERMIT #603 DELINEATION DRI[illegible]OLES (APRIL1, 2010 THROUGH APRIL 30, 2011)

66000000 delineation holes

Mine Unit	Delineation Number	Section	Township	Range	Northing	Easting	Total Drilled Depth	Drill Completion Date	Surface Ownership
F	3673-28-26	28	36	73	876024	375984	800	3/29/2011	Vollman Ranches
F	3673-28-27	28	36	73	875976	376033	800	4/4/2011	Vollman Ranches
F	3673-28-28	28	36	73	876024	376088	720	3/31/2011	Vollman Ranches
F	3673-28-29	28	36	73	876104	376201	800	3/30/2011	Vollman Ranches
F	3673-28-31	28	36	73	875763	376805	820	3/31/2011	Vollman Ranches
F	3673-28-32	28	36	73	875804	377013	820	4/1/2011	Vollman Ranches
F	3673-28-33	28	36	73	875807	377088	820	4/4/2011	Vollman Ranches
F	3673-28-34	28	36	73	875705	377134	820	4/4/2011	Vollman Ranches
I	3673-24-5000	24	36	73	877335	391616	720	3/17/2011	Fowler Ranch Partnership
I	3673-24-5001	24	36	73	877427	391691	720	3/23/2011	Fowler Ranch Partnership
I	3673-24-5002	24	36	73	877423	391793	720	3/24/2011	Fowler Ranch Partnership
I	3673-24-5003	24	36	73	877341	391803	720	3/25/2011	Fowler Ranch Partnership
I	3673-24-5004	24	36	73	877255	391708	720	3/17/2011	Fowler Ranch Partnership
I	3673-24-5006	24	36	73	877131	391921	720	3/18/2011	Fowler Ranch Partnership
I	3673-24-5009	24	36	73	876943	392164	720	3/21/2011	Fowler Ranch Partnership
I	3673-24-5010	24	36	73	876832	392376	720	3/21/2011	Fowler Ranch Partnership
I	3673-24-5011	24	36	73	876846	392482	720	3/23/2011	Fowler Ranch Partnership
I	3673-24-5012	24	36	73	876723	392559	720	3/22/2011	Fowler Ranch Partnership
I	3673-24-5015	24	36	73	878040	391673	730	3/31/2011	Fowler Ranch Partnership
I	3673-24-5016	24	36	73	878133	391765	730	3/31/2011	Fowler Ranch Partnership
I	3673-24-5017	24	36	73	878141	391654	730	3/28/2011	Fowler Ranch Partnership
I	3673-24-5018	24	36	73	878236	391636	730	3/25/2011	Fowler Ranch Partnership
I	3673-24-5019	24	36	73	877872	391133	730	3/28/2011	Fowler Ranch Partnership
I	3673-24-5020	24	36	73	878234	391966	730	3/30/2011	Fowler Ranch Partnership
I	3673-24-5021	24	36	73	878248	392127	730	4/1/2011	Fowler Ranch Partnership
I	3673-24-5022	24	36	73	878428	391175	730	4/4/2011	Fowler Ranch Partnership
I	3673-24-5023	24	36	73	878443	391257	730	4/1/2011	Fowler Ranch Partnership
I	3673-24-5024	24	36	73	878538	391368	730	3/31/2011	Fowler Ranch Partnership
I	3673-24-5025	24	36	73	877358	391049	730	4/5/2011	Fowler Ranch Partnership
I	3673-24-5028	24	36	73	877779	391443	730	4/5/2011	Fowler Ranch Partnership
I	3673-24-5029	24	36	73	877872	391133	730	4/7/2011	Fowler Ranch Partnership
I	3673-24-5031	24	36	73	878043	391368	730	4/4/2011	Fowler Ranch Partnership
I	3673-24-5032	24	36	73	878153	392510	730	3/31/2011	Fowler Ranch Partnership

TABLE 10-2: 2010-2011 ANNUAL REPORT: PLUGGED AND ABANDONMENT REPORT WITH BOND RELEASE REQUEST, PERMIT #603

88 delineation holes

Prepared By Ken Garoutte
Operator Name Cameco Resources
Smith Ranch-Highland Operation
P.O. Box 1210, Glenrock, WY 82637

All coordinates are in Converse County

Mine Unit	Delineation Number	Sect	Twnshp	Range	Northing	Easting	Total Depth	Drill Date	Seed Date	Abandonmnt Bond Release Request Date	LQD Abandonment Bond Release Date	Vegetation Bond Release Request Date	LQD Vegetation Bond Release Date	Surface Ownership
KN	3673-19-1000	19	36	73	880516	365807	840	11/20/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1001	19	36	73	880584	365739	860	12/1/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1002	19	36	73	880391	365852	860	11/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1003	19	36	73	880523	365543	860	11/19/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1004	19	36	73	880056	365730	860	11/20/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1005	19	36	73	879920	365696	860	11/23/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1006	19	36	73	880559	365621	840	11/25/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1007	19	36	73	880310	365315	840	11/30/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1008	19	36	73	880181	365664	860	11/23/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1009	19	36	73	880108	365545	860	11/23/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1010	19	36	73	879813	364704	880	11/20/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1011	19	36	73	879979	365774	860	11/24/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1012	19	36	73	879901	365794	860	11/24/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1013	19	36	73	880385	365861	860	11/24/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1015	19	36	73	880297	364625	880	1/25/2010	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1016	19	36	73	880281	365947	840	1/5/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1017	19	36	73	880237	365875	840	12/18/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1018	19	36	73	880288	365807	840	1/4/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1019	19	36	73	880063	365851	840	1/14/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1020	19	36	73	880154	365867	840	1/11/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1021	19	36	73	880199	365795	840	1/5/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1022	19	36	73	880483	365970	840	1/13/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1023	19	36	73	880201	365941	840	1/12/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1024	19	36	73	880154	365867	840	1/11/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1025	19	36	73	880154	365867	840	1/11/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1026	19	36	73	880114	365941	1000	1/13/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1027	19	36	73	880378	364688	880	1/28/2010	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1029 (19-129, 2010 Annual Report)	19	36	73	881022	365552	880	2/24/2010	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-938	19	36	73	880281	365702	860	11/2/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-939	19	36	73	880375	365673	860	11/2/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-940	19	36	73	880389	365512	100	10/28/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-941	19	36	73	880346	365445	860	10/27/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-942	19	36	73	880056	365559	1000	11/3/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.

T [redacted] 10-2: 2010-2011 ANNUAL REPORT: PLUGGED AND A[redacted]DONMENT REPORT WITH BOND RELEASE REQUEST, [redacted]MIT #603

Mine Unit	Delineation Number	Sect	Twnshp	Range	Northing	Easting	Total Depth	Drill Date	Seed Date	Abandonmnt Bond Release Request Date	LQD Abandonment Bond Release Date	Vegetation Bond Release Request Date	LQD Vegetation Bond Release Date	Surface Ownership
KN	3673-19-943	19	36	73	880044	365363	880	10/23/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-944	19	36	73	880110	365354	880	10/26/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-945	19	36	73	880139	365256	880	10/27/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-946	19	36	73	880118	365141	1000	10/23/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-947	19	36	73	880226	365137	840	11/3/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-948	19	36	73	880261	364938	860	11/4/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-949	19	36	73	880267	364818	860	11/6/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-950	19	36	73	880243	364711	860	11/9/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-951	19	36	73	880155	364664	980	11/23/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-952	19	36	73	880059	364616	880	9/9/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-953	19	36	73	879903	364671	880	11/12/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-954	19	36	73	879711	364682	880	10/6/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-955	19	36	73	879657	364760	920	10/2/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-956	19	36	73	879550	364676	920	9/30/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-957	19	36	73	879615	364843	880	10/7/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-958	19	36	73	880503	365502	860	12/18/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-959	19	36	73	879820	364905	880	10/22/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-960	19	36	73	880222	364630	880	12/2/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-961	19	36	73	880056	365776	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-962	19	36	73	880110	365718	860	12/15/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-963	19	36	73	880041	364862	880	11/11/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-964	19	36	73	880085	364908	880	11/10/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-965	19	36	73	880125	364964	880	11/3/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-966	19	36	73	880132	365796	860	12/17/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-967	19	36	73	879977	365849	860	12/17/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-968	19	36	73	879628	365061	880	10/21/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-969	19	36	73	880584	365831	840	12/18/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-970	19	36	73	879588	365134	880	9/29/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-971	19	36	73	879596	365223	880	9/28/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-972	19	36	73	879596	365305	880	10/8/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-973	19	36	73	879618	365382	900	10/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-974	19	36	73	879741	365655	880	10/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-975	19	36	73	819671	365650	880	10/19/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-976	19	36	73	879605	365616	1000	10/20/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-977	19	36	73	879261	364774	900	9/30/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-978	19	36	73	879207	364899	890	9/28/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-979	19	36	73	879261	364965	900	9/29/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-980	19	36	73	880453	365901	860	12/17/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-981	19	36	73	880385	365936	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-982	19	36	73	879123	364904	900	9/25/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.

T[redacted]E 10-2: 2010-2011 ANNUAL REPORT: PLUGGED AND A[redacted]DONMENT REPORT WITH BOND RELEASE REQUEST, [redacted]MIT #603

Mine Unit	Delineation Number	Sect	Twnshp	Range	Northing	Easting	Total Depth	Drill Date	Seed Date	Abandonmnt Bond Release Request Date	LQD Abandonment Bond Release Date	Vegetation Bond Release Request Date	LQD Vegetation Bond Release Date	Surface Ownership
KN	3673-19-987	19	36	73	878813	364916	900	10/8/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-988	19	36	73	880312	365878	860	12/15/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-989	19	36	73	879912	365868	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-990	19	36	73	879845	365845	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-991	19	36	73	880346	365036	860	11/5/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-992	19	36	73	880118	365152	1000	11/4/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-993	19	36	73	880448	365543	860	11/5/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-994	19	36	73	880454	365638	860	11/6/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-995	19	36	73	880391	365752	860	11/11/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-996	19	36	73	880017	365647	880	11/13/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-997	19	36	73	880469	365726	860	11/10/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-998	19	36	73	880523	365543	860	11/12/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-999	19	36	73	880336	364938	860	11/11/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
D	3673-22-1	22	36	73	880331	385490	220	2/24/2010	4/15/2011	6/30/2011				Ruth Whiting, et al
D	3673-23-1	23	36	73	880310	386098	400	3/12/2010	4/15/2011	6/30/2011				Ruth Whiting, et al

Mix 2010-C
(Used Oct '10 thru 2011)

SEED MIX APPLIED	lbs PLS/acre
Western Wheatgrass, Rosanna	5.6
Canby Bluegrass	0.1
Sheeps Fescue, Covar	0.3
Sand Bluestream	1.4
Praire Sandreed	1.1
Sideoats Grama	1.8
Gardner Saltbrush	0.02
Total PLS#lbs/acre	10.32

Table 10-3
Meterological Data
November 2010 - April 2011

Date	Temp Avg. (F)	Rain Fall Total (in)
10-Nov	26.7	0.01
10-Dec	27.9	0.16
11-Jan	24.3	0.02
11-Feb	20.4	0.06
11-Mar	35.4	0.11
11-Apr	39	1.22
Total Rainfall Rpt. Period		**1.58**

Date	Wind Speed Avg. (mph)	Wind Angle Avg.	Wind Direction Avg.
10-Nov	11.28	214.47	Southwest
10-Dec	12.4	243.39	Southwest
11-Jan	13.45	254.22	West
11-Feb	14.23	224.46	Southwest
11-Mar	13.09	220.59	Southwest
11-Apr	14.24	230.22	Southwest

TABLE 10-1: PERMIT #603 DELINEATION DRILL HOLES (APRIL1, 2010 THROUGH APRIL 30, 2011)

66 delineation holes

Prepared By Ken Garoutte
Operator Name Cameco Resources
Smith Ranch-Highland Operation
P.O. Box 1210, Glenrock, WY 82637

All holes capped and sealed

Mine Unit	Delineation Number	Section	Township	Range	Northing	Easting	Total Drilled Depth	Drill Completion Date	Surface Ownership
D	3673-23-139	23	36	73	880240	386266	700	4/21/2010	Numrich, et al
E	3673-22-19	22	36	73	879578	385211	640	9/29/2010	Vollman Ranches
E	3673-22-20	22	36	73	878676	384648	600	11/4/2010	Vollman Ranches
F	3673-21-1	21	36	73	878157	376633	740	3/21/2011	Vollman Ranches
F	3673-21-10	21	36	73	878791	377436	720	3/23/2011	Vollman Ranches
F	3673-21-11	21	36	73	878962	377268	720	3/23/2011	Duck Creek Ranch
F	3673-21-12	21	36	73	879035	377266	760	3/24/2011	Duck Creek Ranch
F	3673-21-13	21	36	73	879036	377366	760	3/25/2011	Duck Creek Ranch
F	3673-21-14	21	36	73	878635	378158	720	3/24/2011	Vollman Ranches
F	3673-21-15	21	36	73	878636	378271	720	3/23/2011	Vollman Ranches
F	3673-21-16	21	36	73	878742	378156	730	3/25/2011	Vollman Ranches
F	3673-21-17	21	36	73	878743	378268	720	3/25/2011	Vollman Ranches
F	3673-21-18	21	36	73	879034	377756	740	3/24/2011	Duck Creek Ranch
F	3673-21-19	21	36	73	879036	377866	740	3/25/2011	Duck Creek Ranch
F	3673-21-2	21	36	73	878309	376881	760	3/22/2011	Vollman Ranches
F	3673-21-20	21	36	73	879036	377964	740	3/25/2011	Duck Creek Ranch
F	3673-21-21	21	36	73	879041	378158	720	3/23/2011	Duck Creek Ranch
F	3673-21-23	21	36	73	879139	378063	720	3/25/2011	Duck Creek Ranch
F	3673-21-24	21	36	73	879237	378066	740	3/25/2011	Duck Creek Ranch
F	3673-21-25	21	36	73	879240	378170	740	3/28/2011	Duck Creek Ranch
F	3673-21-26	21	36	73	879402	378269	740	3/28/2011	Duck Creek Ranch
F	3673-21-28	21	36	73	878889	377247	720	3/28/2011	Duck Creek Ranch
F	3673-21-29	21	36	73	878867	377069	740	3/29/2011	Duck Creek Ranch
F	3673-21-3	21	36	73	878360	376590	760	3/21/2011	Vollman Ranches
F	3673-21-30	21	36	73	878764	377060	740	3/29/2011	Vollman Ranches
F	3673-21-4	21	36	73	878470	377019	760	3/21/2011	Vollman Ranches
F	3673-21-5	21	36	73	878598	376689	760	3/22/2011	Vollman Ranches
F	3673-21-6	21	36	73	878573	377127	742	3/22/2011	Vollman Ranches
F	3673-21-7	21	36	73	878648	377094	720	3/22/2011	Vollman Ranches
F	3673-21-8	21	36	73	878711	377364	740	3/23/2011	Vollman Ranches
F	3673-21-9	21	36	73	878795	377032	740	3/23/2011	Vollman Ranches
F	3673-28-24	28	36	73	876090	375592	800	4/5/2011	Vollman Ranches
F	3673-28-25	28	36	73	876055	375792	800	3/29/2011	Vollman Ranches

TABLE 10-1: PERMIT #603 DELINEATION DRILL ES (APRIL1, 2010 THROUGH APRIL 30, 2011)

66 delineation holes

Mine Unit	Delineation Number	Section	Township	Range	Northing	Easting	Total Drilled Depth	Drill Completion Date	Surface Ownership
F	3673-28-26	28	36	73	876024	375984	800	3/29/2011	Vollman Ranches
F	3673-28-27	28	36	73	875976	376033	800	4/4/2011	Vollman Ranches
F	3673-28-28	28	36	73	876024	376088	720	3/31/2011	Vollman Ranches
F	3673-28-29	28	36	73	876104	376201	800	3/30/2011	Vollman Ranches
F	3673-28-31	28	36	73	875763	376805	820	3/31/2011	Vollman Ranches
F	3673-28-32	28	36	73	875804	377013	820	4/1/2011	Vollman Ranches
F	3673-28-33	28	36	73	875807	377088	820	4/4/2011	Vollman Ranches
F	3673-28-34	28	36	73	875705	377134	820	4/4/2011	Vollman Ranches
I	3673-24-5000	24	36	73	877335	391616	720	3/17/2011	Fowler Ranch Partnership
I	3673-24-5001	24	36	73	877427	391691	720	3/23/2011	Fowler Ranch Partnership
I	3673-24-5002	24	36	73	877423	391793	720	3/24/2011	Fowler Ranch Partnership
I	3673-24-5003	24	36	73	877341	391803	720	3/25/2011	Fowler Ranch Partnership
I	3673-24-5004	24	36	73	877255	391708	720	3/17/2011	Fowler Ranch Partnership
I	3673-24-5006	24	36	73	877131	391921	720	3/18/2011	Fowler Ranch Partnership
I	3673-24-5009	24	36	73	876943	392164	720	3/21/2011	Fowler Ranch Partnership
I	3673-24-5010	24	36	73	876832	392376	720	3/21/2011	Fowler Ranch Partnership
I	3673-24-5011	24	36	73	876846	392482	720	3/23/2011	Fowler Ranch Partnership
I	3673-24-5012	24	36	73	876723	392559	720	3/22/2011	Fowler Ranch Partnership
I	3673-24-5015	24	36	73	878040	391673	730	3/31/2011	Fowler Ranch Partnership
I	3673-24-5016	24	36	73	878133	391765	730	3/31/2011	Fowler Ranch Partnership
I	3673-24-5017	24	36	73	878141	391654	730	3/28/2011	Fowler Ranch Partnership
I	3673-24-5018	24	36	73	878236	391636	730	3/25/2011	Fowler Ranch Partnership
I	3673-24-5019	24	36	73	877872	391133	730	3/28/2011	Fowler Ranch Partnership
I	3673-24-5020	24	36	73	878234	391966	730	3/30/2011	Fowler Ranch Partnership
I	3673-24-5021	24	36	73	878248	392127	730	4/1/2011	Fowler Ranch Partnership
I	3673-24-5022	24	36	73	878428	391175	730	4/4/2011	Fowler Ranch Partnership
I	3673-24-5023	24	36	73	878443	391257	730	4/1/2011	Fowler Ranch Partnership
I	3673-24-5024	24	36	73	878538	391368	730	3/31/2011	Fowler Ranch Partnership
I	3673-24-5025	24	36	73	877358	391049	730	4/5/2011	Fowler Ranch Partnership
I	3673-24-5028	24	36	73	877779	391443	730	4/5/2011	Fowler Ranch Partnership
I	3673-24-5029	24	36	73	877872	391133	730	4/7/2011	Fowler Ranch Partnership
I	3673-24-5031	24	36	73	878043	391368	730	4/4/2011	Fowler Ranch Partnership
I	3673-24-5032	24	36	73	878153	392510	730	3/31/2011	Fowler Ranch Partnership

TABLE [redacted] 2010-2011 ANNUAL REPORT: PLUGGED AND ABAN[redacted]ENT REPORT WITH BOND RELEASE REQUEST, PERM[redacted]03

88 delineation holes

Prepared By Ken Garoutte
Operator Name Cameco Resources
Smith Ranch-Highland Operation
P.O. Box 1210, Glenrock, WY 82637

All coordinates are in Converse County

Mine Unit	Delineation Number	Sect	Twnshp	Range	Northing	Easting	Total Depth	Drill Date	Seed Date	Abandonmnt Bond Release Request Date	LQD Abandonment Bond Release Date	Vegetation Bond Release Request Date	LQD Vegetation Bond Release Date	Surface Ownership
KN	3673-19-1000	19	36	73	880516	365807	840	11/20/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1001	19	36	73	880584	365739	860	12/1/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1002	19	36	73	880391	365852	860	11/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1003	19	36	73	880523	365543	860	11/19/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1004	19	36	73	880056	365730	860	11/20/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1005	19	36	73	879920	365696	860	11/23/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1006	19	36	73	880559	365621	840	11/25/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1007	19	36	73	880310	365315	840	11/30/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1008	19	36	73	880181	365664	860	11/23/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1009	19	36	73	880108	365545	860	11/23/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1010	19	36	73	879813	364704	880	11/20/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1011	19	36	73	879979	365774	860	11/24/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1012	19	36	73	879901	365794	860	11/24/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1013	19	36	73	880385	365861	860	11/24/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1015	19	36	73	880297	364625	880	1/25/2010	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1016	19	36	73	880281	365947	840	1/5/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1017	19	36	73	880237	365875	840	12/18/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1018	19	36	73	880288	365807	840	1/4/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1019	19	36	73	880063	365851	840	1/14/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1020	19	36	73	880154	365867	840	1/11/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1021	19	36	73	880199	365795	840	1/5/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1022	19	36	73	880483	365970	840	1/13/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1023	19	36	73	880201	365941	840	1/12/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1024	19	36	73	880154	365867	840	1/11/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1025	19	36	73	880154	365867	840	1/11/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1026	19	36	73	880114	365941	1000	1/13/2010	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1027	19	36	73	880378	364688	880	1/28/2010	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-1029 (19-129, 2010 Annual Report)	19	36	73	881022	365552	880	2/24/2010	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-938	19	36	73	880281	365702	860	11/2/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-939	19	36	73	880375	365673	860	11/2/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-940	19	36	73	880389	365512	100	10/28/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-941	19	36	73	880346	365445	860	10/27/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-942	19	36	73	880056	365559	1000	11/3/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.

TABLE 2: 2010-2011 ANNUAL REPORT: PLUGGED AND ABANDONMENT REPORT WITH BOND RELEASE REQUEST, PERMIT C-1993-003

88 delineation holes

Mine Unit	Delineation Number	Sect	Twnshp	Range	Northing	Easting	Total Depth	Drill Date	Seed Date	Abandonmnt Bond Release Request Date	LQD Abandonment Bond Release Date	Vegetation Bond Release Request Date	LQD Vegetation Bond Release Date	Surface Ownership
KN	3673-19-943	19	36	73	880044	365363	880	10/23/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-944	19	36	73	880110	365354	880	10/26/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-945	19	36	73	880139	365256	880	10/27/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-946	19	36	73	880118	365141	1000	10/23/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-947	19	36	73	880226	365137	840	11/3/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-948	19	36	73	880261	364938	860	11/4/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-949	19	36	73	880267	364818	860	11/6/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-950	19	36	73	880243	364711	860	11/9/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-951	19	36	73	880155	364664	980	11/23/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-952	19	36	73	880059	364616	880	9/9/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-953	19	36	73	879903	364671	880	11/12/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-954	19	36	73	879711	364682	880	10/6/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-955	19	36	73	879657	364760	920	10/2/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-956	19	36	73	879550	364676	920	9/30/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-957	19	36	73	879615	364843	880	10/7/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-958	19	36	73	880503	365502	860	12/18/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-959	19	36	73	879820	364905	880	10/22/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-960	19	36	73	880222	364630	880	12/2/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-961	19	36	73	880056	365776	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-962	19	36	73	880110	365718	860	12/15/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-963	19	36	73	880041	364862	880	11/11/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-964	19	36	73	880085	364908	880	11/10/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-965	19	36	73	880125	364964	880	11/3/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-966	19	36	73	880132	365796	860	12/17/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-967	19	36	73	879977	365849	860	12/17/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-968	19	36	73	879628	365061	880	10/21/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-969	19	36	73	880584	365831	840	12/18/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-970	19	36	73	879588	365134	880	9/29/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-971	19	36	73	879596	365223	880	9/28/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-972	19	36	73	879596	365305	880	10/8/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-973	19	36	73	879618	365382	900	10/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-974	19	36	73	879741	365655	880	10/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-975	19	36	73	819671	365650	880	10/19/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-976	19	36	73	879605	365616	1000	10/20/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-977	19	36	73	879261	364774	900	9/30/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-978	19	36	73	879207	364899	890	9/28/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-979	19	36	73	879261	364965	900	9/29/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-980	19	36	73	880453	365901	860	12/17/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-981	19	36	73	880385	365936	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-982	19	36	73	879123	364904	900	9/25/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.

TABLE [redacted]. 2010-2011 ANNUAL REPORT: PLUGGED AND ABANDONMENT REPORT WITH BOND RELEASE REQUEST, PERM [redacted]03
88 delineation holes

Mine Unit	Delineation Number	Sect	Twnshp	Range	Northing	Easting	Total Depth	Drill Date	Seed Date	Abandonmnt Bond Release Request Date	LQD Abandonment Bond Release Date	Vegetation Bond Release Request Date	LQD Vegetation Bond Release Date	Surface Ownership
KN	3673-19-987	19	36	73	878813	364916	900	10/8/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-988	19	36	73	880312	365878	860	12/15/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-989	19	36	73	879912	365868	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-990	19	36	73	879845	365845	860	12/16/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-991	19	36	73	880346	365036	860	11/5/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-992	19	36	73	880118	365152	1000	11/4/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-993	19	36	73	880448	365543	860	11/5/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-994	19	36	73	880454	365638	860	11/6/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-995	19	36	73	880391	365752	860	11/11/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-996	19	36	73	880017	365647	880	11/13/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-997	19	36	73	880469	365726	860	11/10/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-998	19	36	73	880523	365543	860	11/12/2009	10/26/2010	6/30/2011				Vollman Ranches Inc.
KN	3673-19-999	19	36	73	880336	364938	860	11/11/2009	10/27/2010	6/30/2011				Vollman Ranches Inc.
D	3673-22-1	22	36	73	880331	385490	220	2/24/2010	4/15/2011	6/30/2011				Ruth Whiting, et al
D	3673-23-1	23	36	73	880310	386098	400	3/12/2010	4/15/2011	6/30/2011				Ruth Whiting, et al

Mix 2010-C
(Used Oct '10 thru 2011)

SEED MIX APPLIED	lbs PLS/acre
Western Wheatgrass, Rosanna	5.6
Canby Bluegrass	0.1
Sheeps Fescue, Covar	0.3
Sand Bluestream	1.4
Praire Sandreed	1.1
Sideoats Grama	1.8
Gardner Saltbrush	0.02
Total PLS#lbs/acre	10.32

Figures

Figure 7-1
Mean Selenium Concentrations (mg/kg) in Vegetation Samples from Irrigator No. 1
During 1996-2010

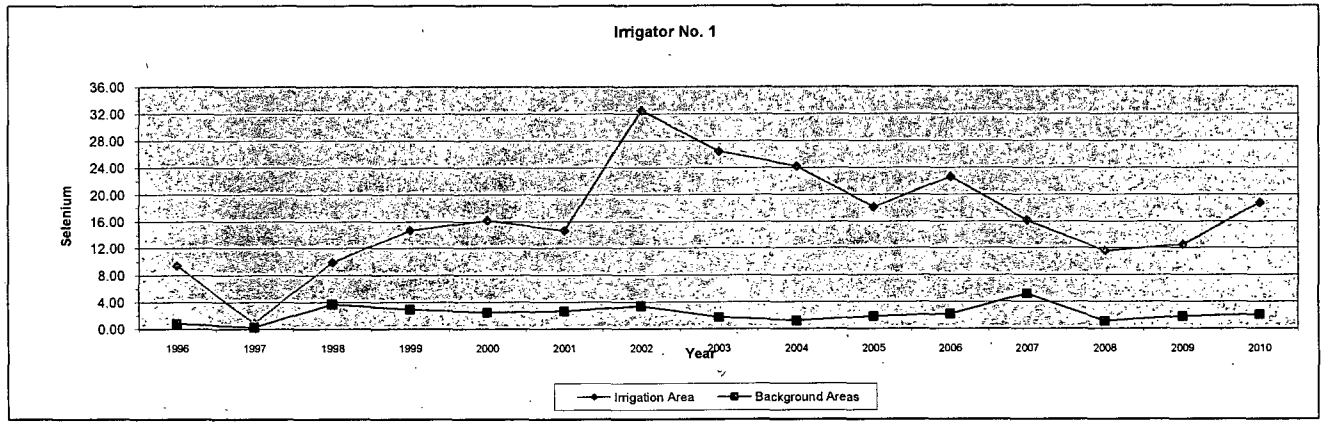
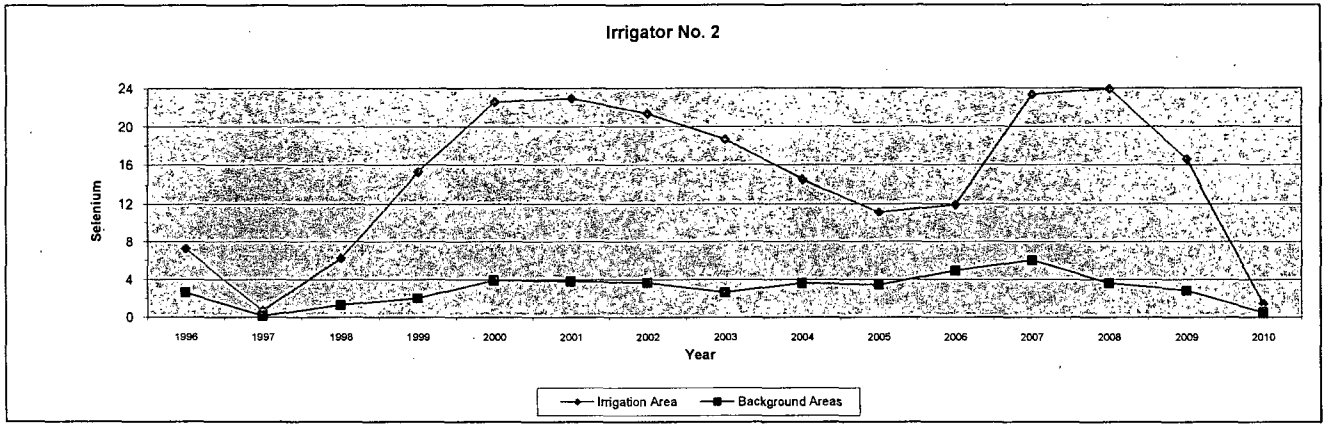


Figure 7-2
Mean Selenium Concentrations (mg/kg) in Vegetation Samples from Irrigator No. 2
During 1996-2010



* data values for 2005 were inadvertently entered wrong for both irrigators - these values were checked and corrected in the data tables and the graph was updated

Figure 7-3
Mean Conductivity, Selenium, Uranium, and Radium-226 Concentrations in Soil Samples from Irrigator No. 1 During 1986 and 1990-2010

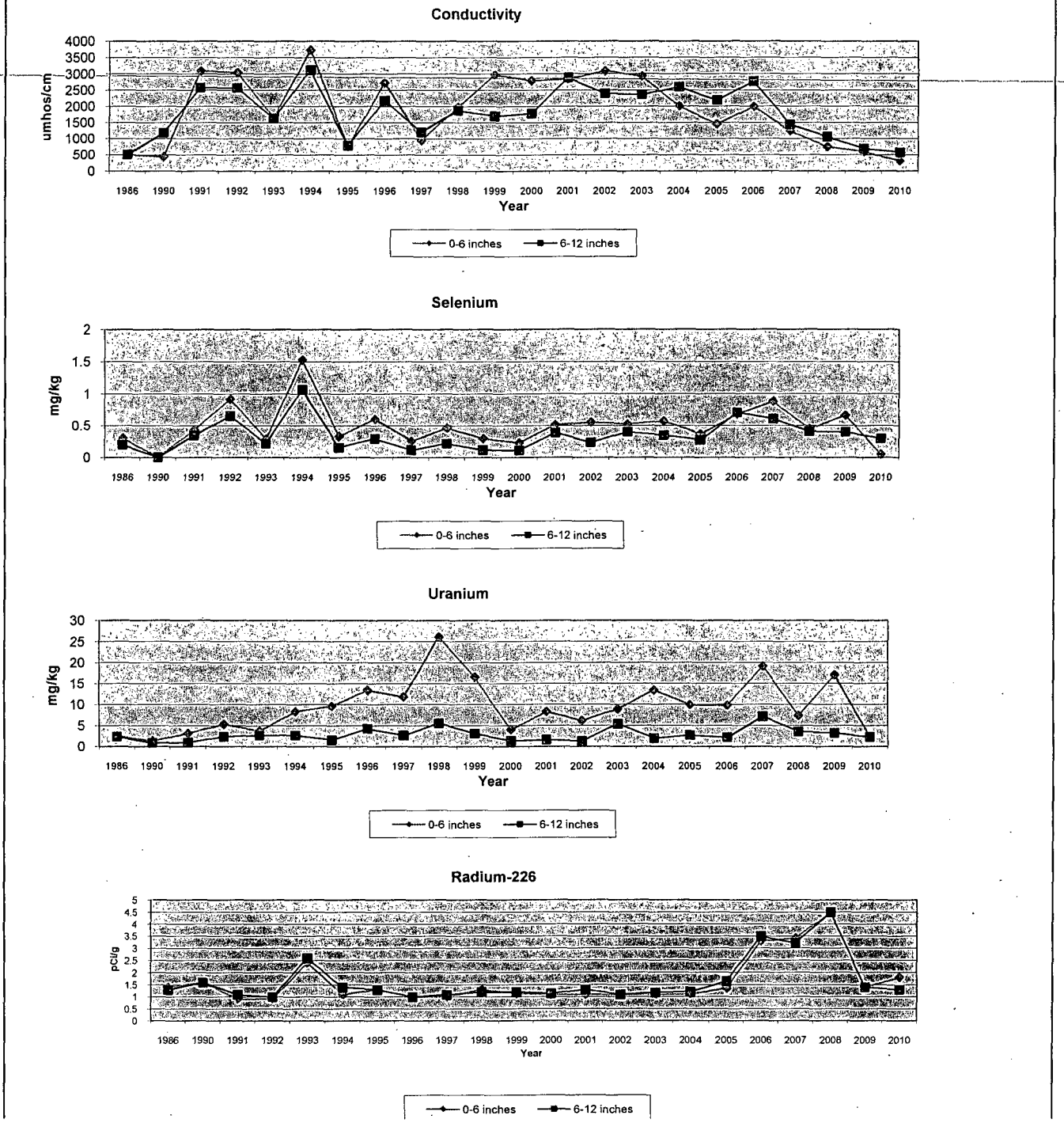
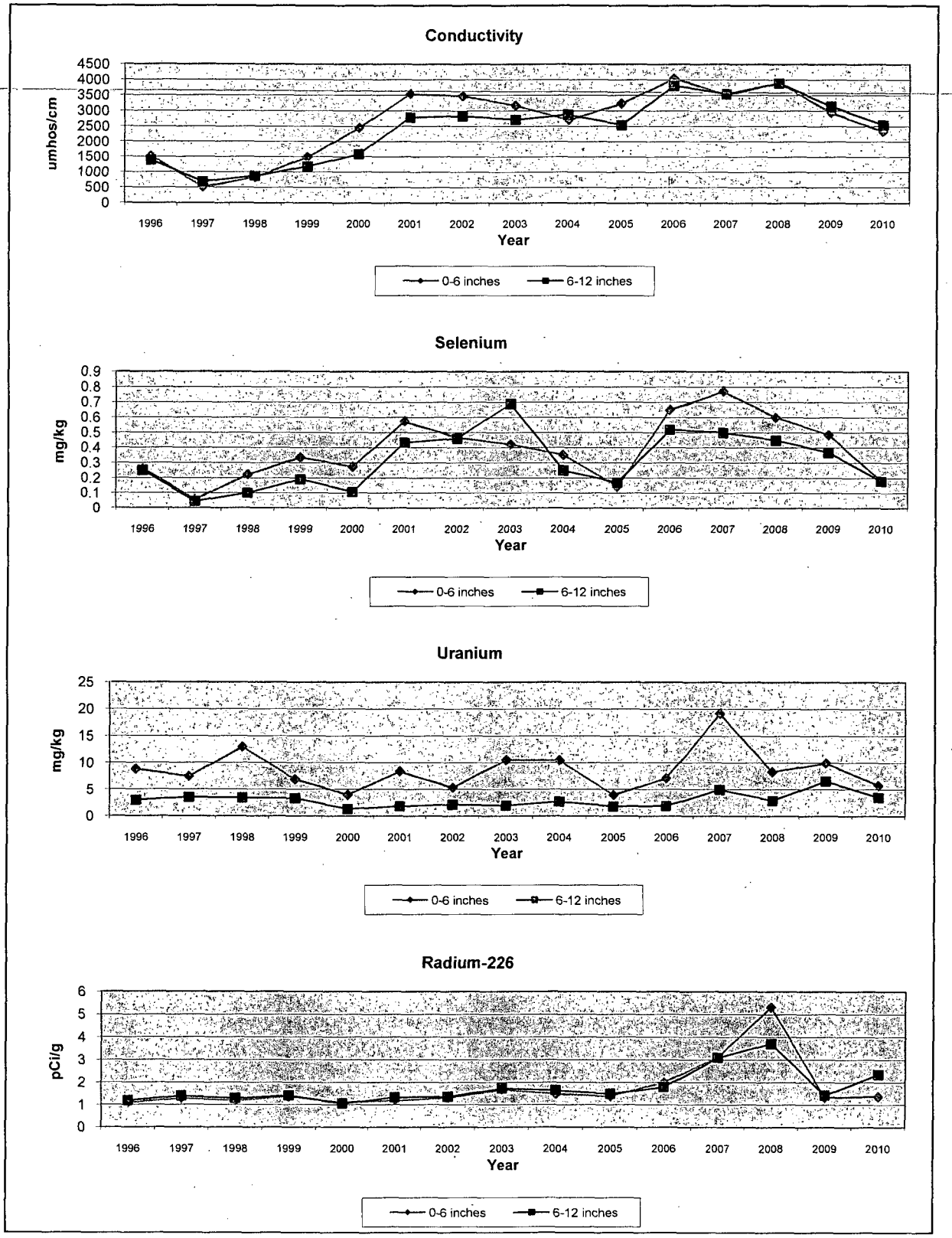
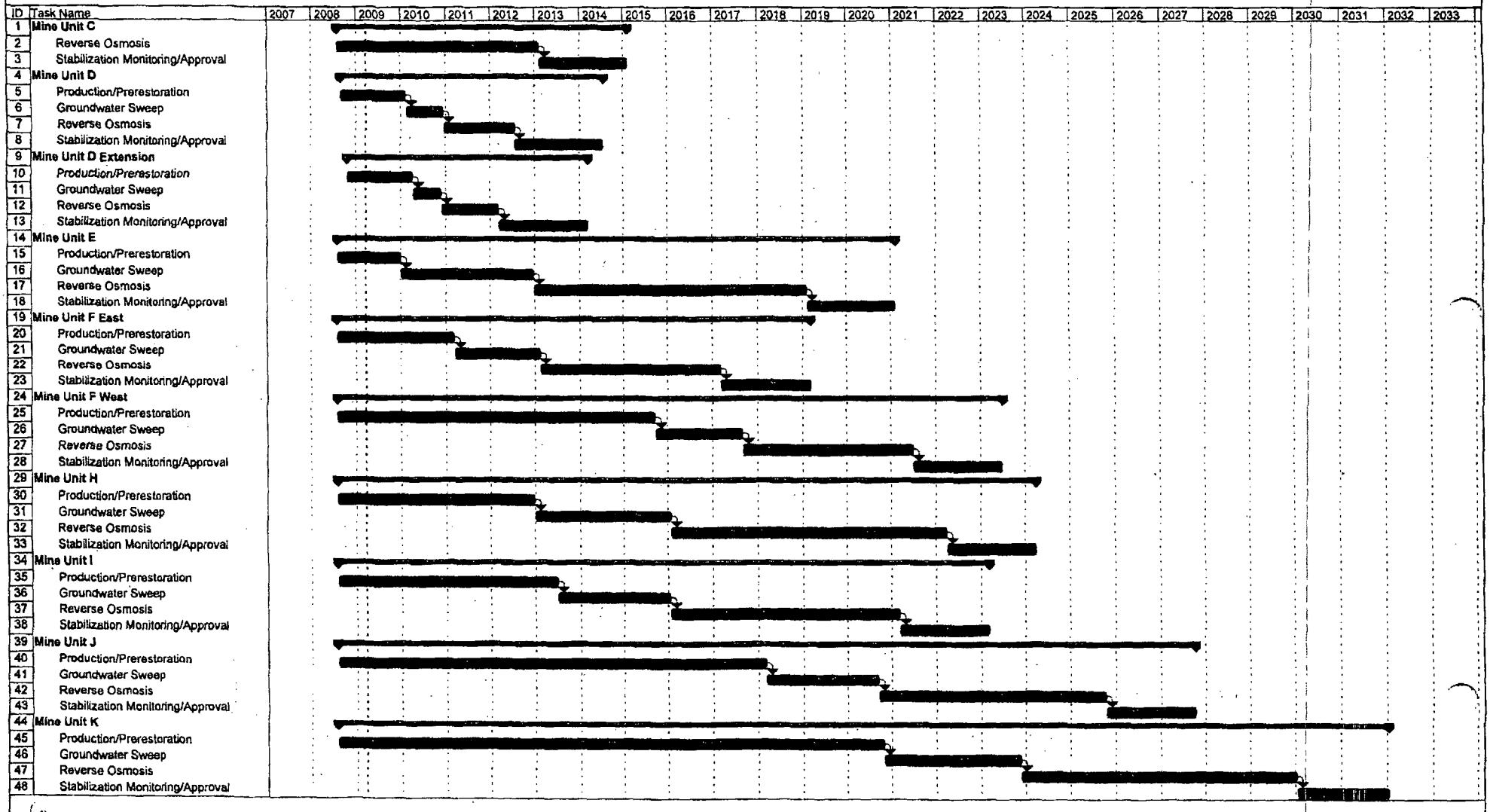


Figure 7-4
Mean Conductivity, Selenium, Uranium, and Radium-226 Concentrations in Soil Samples from Irrigator No. 2 During 1993 and 1995-2010



Appendix A

ATTACHMENT 1 - 2009 HUP RESTORATION SCHEDULE
CONSIDERING 9.0 PV: 1GWS + 8 RO



CAMECO RESOURCES
Project: HUP Restoration Schedule.mp
Date: Wed 3/18/09

Task — Progress — Summary — External Tasks — Deadline
Split — Milestone — Project Summary — External Milestone

Appendix B

2010
ANNUAL MONITORING REPORT
FOR BONER BROS. PARTNERSHIP
SECTION 22 SW¼ NW¼

A. Introduction

The Lease and Monitoring Agreement No. 25008 (effective January 1, 1995, and renewed November 19, 2009) by, and between, Boner Bros. Partnership and Power Resources, Inc. (PRI), within Section IV-Monitoring plan, requires PRI to conduct water monitoring of the pumpback sumps, vegetation monitoring of areas downstream from the pumpback sumps, visual inspections of the area, and the submittal of an Annual Monitoring Report which summarizes the results of the monitoring activities. The report contained herein constitutes the required Annual Monitoring Report for the Calendar Year 2010.

B. Visual Inspections

In accordance with the Lease and Monitoring Agreement, the seepage area, pumpback sumps and potentially affected lands were inspected on at least a monthly basis. The Interceptor Trench installed in August 1996 and between the Satellite No. 1 Purge Storage Reservoir (PSR-1) and the P-1 through P-5 seep areas (see Figure 1) continues to be very effective at intercepting seepage in the vicinity of the seep areas. At the time that the Interceptor Trench became operational, pumping of the South Pumpback Sump was discontinued.

During the period December 27, 2009 through December 26, 2010 both the East Pumpback Sump and South Pumpback Sumps were off. It is unlikely that any seepage flowed directly onto Boner lands at either area, or any seepage would be from natural precipitation, as PSR-1 has been dry since usage was discontinued in 2004.

C. Water Monitoring

In accordance with the Lease and Monitoring agreement, water collected in the East and South Pumpback Sumps was sampled and analyzed for dissolved selenium on a quarterly basis. The samples were obtained directly from the sump vaults.

Results of the monitoring are shown in Table 1, and on Figure 1. A review of the results shows that selenium concentration at both locations remained low. The mean selenium concentration at the East Pumpback Sump was .048 mg/L. The mean selenium concentration at the South Pumpback Sump remained stable at 0.002 mg/L. These mean concentrations shown are below Class III (Livestock) and Class I (Domestic) standards of 0.05 mg/L.

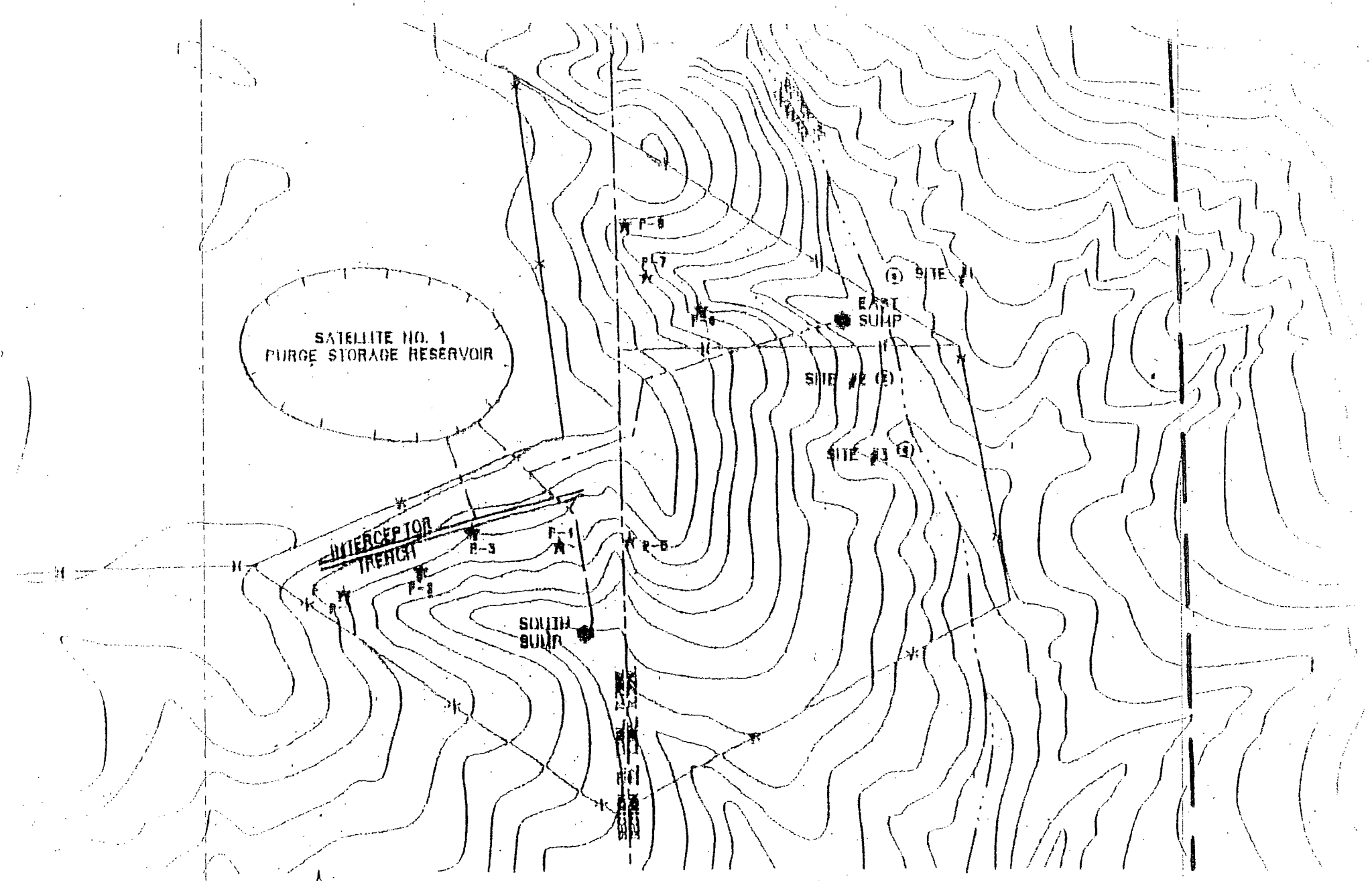


FIGURE 1

SECTION 21
DRAINAGE AREA

POWER RESOURCES

Table 1

Dissolved Selenium Concentrations (mg/L) in Water

Date	East Pumpback Sump	South Pumpback Sump
2/16/10	0.063	0.003
5/19/10	0.062	<0.001
8/10/10	0.033	0.003
11/2/10	0.033	0.003
Mean	**0.048**	**0.002**

D. Vegetation Monitoring

In accordance with the Lease and Monitoring Agreement, vegetation samples were obtained during the "growing season" portion of 2010. Samples were obtained on June 11, 2010. Consistent with previous monitoring, the vegetation samples were obtained from the drainage bottom, downstream of the East Pumpback Sump at locations just upstream of the Section 22 fence (Site #1, Background) and approximately 100 ft. and 300 to 400 ft downstream of the Section 22 fence (Sites #2 and #3, respectively). Sample locations are shown on the attached map.

The vegetation samples were obtained by clipping similar grasses at each location. The samples were submitted to Energy Labs for total selenium analysis. Results of the laboratory analysis are included in Table 2. A review of the results shows that the selenium concentrations at Site #2, as well as Site #1-Background decreased from the previous year, and Site #3 increased. Site #2 is well below the background concentrations, and Site #3 exceeded the background concentration.

All selenium concentrations are below the generally accepted 5-20 mg/kg livestock forage threshold.

Table 2
Selenium Concentrations (mg/kg)
In Vegetation at Section 22 Drainage

Date	Site #1 (Background)	Site #2	Site #3
06/11/09	2.4	0.8	4.6

E. Conclusions

The monitoring requirements specified in the Lease and Monitoring Agreement were conducted during 2010. Results of the monitoring requirements, including visual observations, show that there have been no significant impacts to surface water or vegetation on lands owned by Boner Bros. Partnerships during 2010.

Figure 2 shows a graph of the selenium concentration in the vegetation from 1996 through 2010. This figure illustrates that the selenium concentrations in the vegetation at the potentially affected area (Sample Sites #2 and #3) are generally below the background levels (Site #1). Although there are a few samples that show selenium concentrations above background levels, they are within the natural variability of the vegetation types and sampling method. Additionally, these concentrations are below the extremely conservative threshold of 5 mg/kg selenium that the WDEQ typically uses as a "level of concern", with the exception of the background area (Site #1) in 2008.

As of July 2004, operations have ceased at Satellite No. 1 and wastewater is no longer being discharged into PSR No. 1. As a result, water levels in PSR No. 1 have consequently dried up. A small amount of water accumulates due to natural precipitation events. Both The East Pumpback Sump and South Pumpback sumps were off the entire year, and the Interceptor Trench has been off since May 15, 2005.

Figure 2: Annual Monitoring Report
Selenium Concentrations in Vegetation at Section 22 Drainage

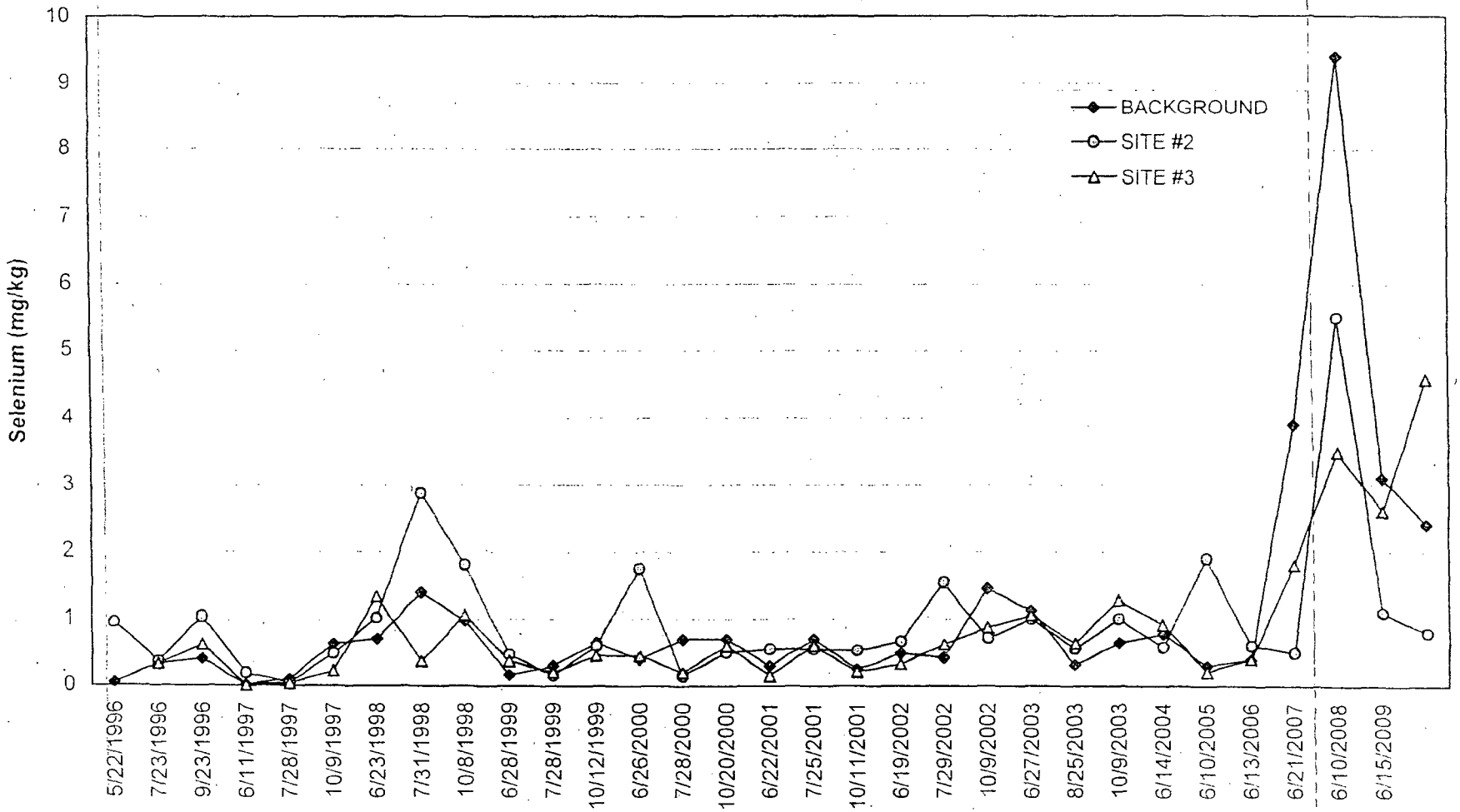
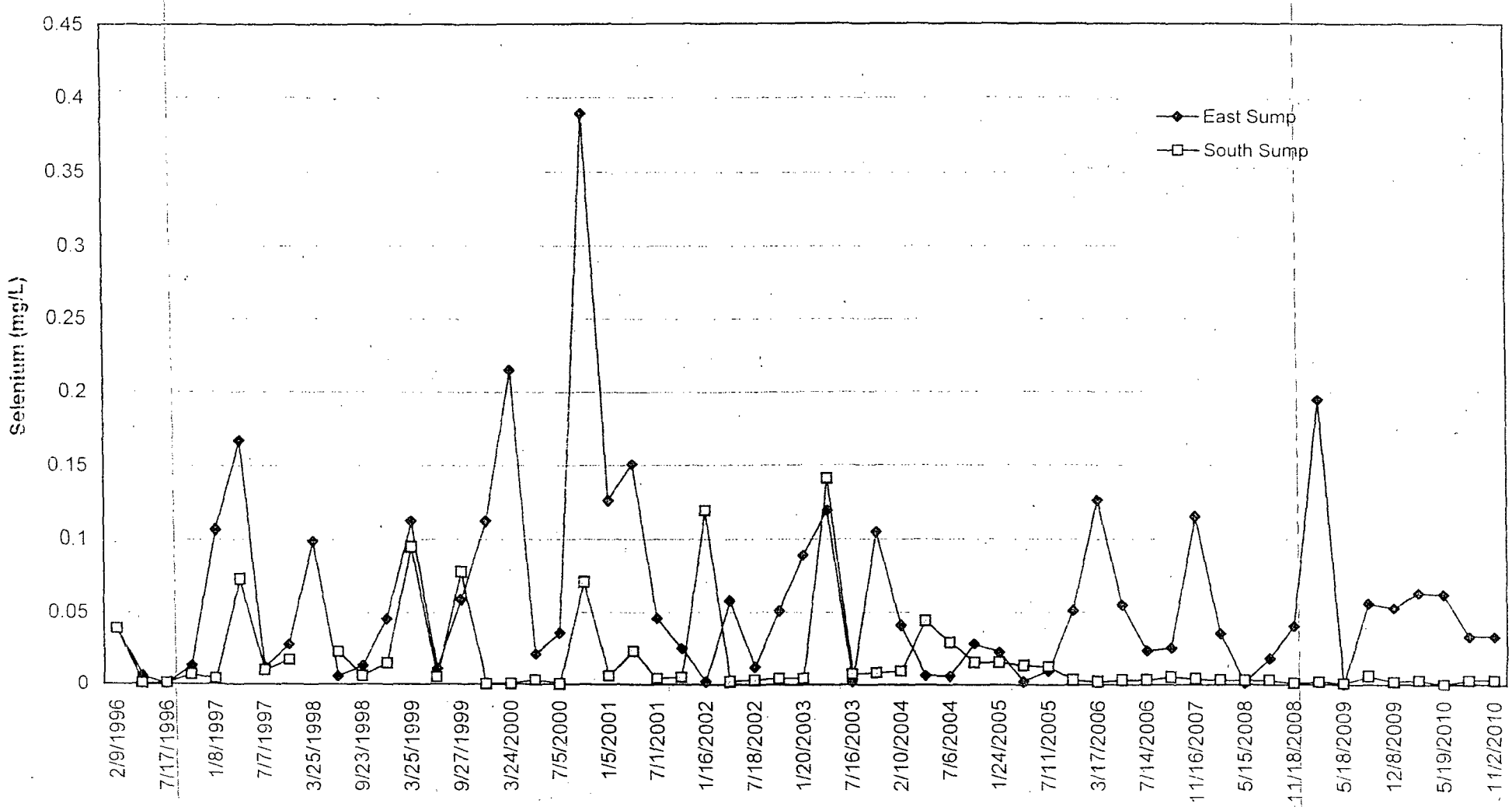


Figure 1: Annual Monitoring Report For Boner Bros. Partnership
Dissolved Selenium Concentrations in Water



Appendix C

Cameco Resources
Highland Uranium Project
2011-12 Surety Estimate

Highland Uranium Project Reclamation Cost Estimate, June 30, 2011

I.	Groundwater Restoration (GW REST Sheet)		$27,557,801
II.	Well Abandonment and Wellfield Reclamation (WA, WF REC, WF-SAT-SURF Sheets)		$20,589,272
III.	Equipment and Building Costs (EQUIP, BLDGS Sheets)		$3,711,654
IV.	Miscellaneous Site Reclamation (MISC REC Sheet)		$11,816,797
	Subtotal Reclamation Cost		$63,675,525
	Contingency	25%	$15,918,881
	TOTAL		$79,594,406

Permit 603

Items in Yellow have been changed since the previous submission

Cameco Resources
Highland Uranium Project
2011-12 Surety Estimate

Ground Water Restoration

			Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-C22	Mine Unit-C Haul Drifts	Mine Unit-D	Mine Unit-D Ext	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-I	Mine Unit-J
I.	**Ground Water Sweep Costs**													
	Estimated PV's		0	0	0	0	0	1	1	1	1	1	1	1
	Total Kgals for GWS		0	0	0	0	0	28046	17296	81658	243980	94815	231640	86995
	Bleed to Deep Disposal Well (%)		100	100	100	100	100	100	100	100	100	100	100	100
	Groundwater Sweep Unit Cost ($/Kgal)		$1.15	$1.15	$1.15	$1.15	$1.15	$1.15	$1.15	$1.15	$1.15	$1.15	$1.15	$1.15
	Subtotal Ground Water Sweep Costs per Wellfield		**$0**	**$0**	**$0**	**$0**	**$0**	**$32,150**	**$19,827**	**$93,608**	**$279,683**	**$108,690**	**$265,537**	**$99,726**
Total Ground Water Sweep Costs			**$899,221**											
II.	***Reverse Osmosis Costs***													
	Estimated PV's		0	0	0	0	0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Total Kgals for RO		0	0	0	0	0	126,207	77,832	367,461	1,097,910	426,668	1,042,380	391,478
	Bleed to Deep Disposal Well (%)		15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
	Reverse Osmosis Unit Cost ($/Kgal)		$0.40	$0.40	$0.40	$0.40	$0.40	$0.40	$0.40	$0.40	$0.40	$0.40	$0.40	$0.40
	Brine volume for disposal		0	0	0	0	0	18,931	11,675	55,119	164,687	64,000	156,357	58,722
	DDW Disposal Cost($/Kgal)		$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66
	Disposal Cost per wellfield		$0.00	$0.00	$0.00	$0.00	$0.00	$12,536.80	$7,731.46	$36,501.82	$109,061.14	$42,383.11	$103,545.06	$38,887.51
	Subtotal Reverse Osmosis Costs per Wellfield		**$0**	**$0**	**$0**	**$0**	**$0**	**$63,020**	**$38,864**	**$183,486**	**$548,225**	**$213,050**	**$520,497**	**$195,479**
Total Reverse Osmosis Costs			**$1,762,621**											
III.	**Reverse Osmosis with Chemical Reductant Costs**													
	Estimated PV's		0	0	3	3	1	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	Total Kgals for RO		0	0	206,883	59,073	0	98,161	60,536	285,803	853,930	331,853	810,740	304,483
	Bleed to Deep Disposal Well (%)		15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
	Reverse Osmosis with chemical reductant Unit Cost ($/Kgal)		$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44
	Brine volume for disposal		0	0	31,032	8,861	0	14,724	9,080	42,870	128,090	49,778	121,611	45,672
	DDW Disposal Cost($/Kgal)		$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66
	Disposal Cost per wellfield		$0.00	$0.00	$20,550.77	$5,868.03	$0.00	$9,750.85	$6,013.36	$28,390.31	$84,825.33	$32,964.64	$80,535.04	$30,245.84
	Subtotal Reverse Osmosis Chemical Reductant & Disposal		**$0**	**$0**	**$112,013**	**$31,984**	**$0**	**$53,147**	**$32,776**	**$154,742**	**$462,343**	**$179,675**	**$438,959**	**$164,856**
Total Reverse Osmosis Chemical Reductant Costs			**$1,630,496**											
IV.	**Bioremediation**													
	Estimated PV's		0	0	0	0	0	0	0	0	0	0	0	0
	Total Kgals for Treatment		0	0	0	0	0	0	0	0	0	0	0	0
	Bleed to Deep Disposal Well (%)		15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
	Bioremediation Unit Cost ($/Kgal)		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Subtotal Bioremediation Costs per Wellfield		**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Total Bioremediation Costs			**$0.00**											
V.	**Selenium Plant Operation**													
	Years		7											
	$/year		$114,000.00											
	Subtotal Selenium Plant Operation Costs		***$798,000.00***											
VI.	**MIT Costs**													
	MIT Costs per Well		$229.83	$229.83	$229.83	$229.83	$229.83	$229.83	$229.83	$229.83	$229.83	$229.83	$229.83	$229.83
	Restoration period, plus stabilization (months)		12.00	12.00	42.00	12.00	12.00	34.00	30.00	113.00	120.00	120.00	101.00	102.00
	Number of MIT's req'd for Prod & Inj Wells		0	66	315	0	0	86	21	672	3,124	930	1,192	993
	Subtotal MIT Mine Unit		**$0.00**	**$15,123.03**	**$72,397.50**	**$0.00**	**$0.00**	**$19,666.84**	**$4,826.50**	**$154,528.44**	**$717,999.33**	**$213,745.00**	**$273,915.37**	**$228,178.53**
	5-year MIT Costs for Disposal Wells	$5,907.53												
	Number of DDWs	3												
	Number of MIT's per DDW	3												

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Ground Water Restoration

				Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-C22	Mine Unit-C Haul Drifts	Mine Unit-D	Mine Unit-D Ext	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-I	Mine Unit-J
	Subtotal MIT DDW Costs			**$53,167.77**											
Total MIT Costs				**$1,753,548.32**											
VII	**Monitoring and Sampling Costs**														
	Modified Guidline 8 =	$337.00	analysis												
	6 parameter contract laboratory analysis =	$100.00	analysis												
	Total monitor wells			9	69	104	0	0	38	15	72	109	86	78	82
	Groundwater sweep duration (months)			0.00	0.00	0.00	0.00	0.00	4.00	4.00	29.00	48.00	36.00	29.00	30.00
	Reverse Osmosis duration (months)			0.00	0.00	30.00	0.00	0.00	18.00	14.00	72.00	60.00	72.00	60.00	60.00
	Stabilization duration (months)			12	12	12	12	12	12	12	12	12	12	12	12
A.	Monitor Well Sampling														
1.	Well Sampling prior to restoration start														
	# of Wells			9	69	104	0	0	38	15	72	109	86	78	82
	$/sample			$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00
2.	Groundwater Sweep Sampling (quarterly)														
	# of Wells			9	69	104	0	0	38	15	72	109	86	78	82
	Total # samples			0	0	0	0	0	51	20	696	1744	1032	754	820
	$/sample			$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00
3.	RO Sampling (quarterly)														
	# of Wells			9	69	104	0	0	38	15	72	109	86	78	82
	Total # samples			0	0	1040	0	0	228	70	1728	2180	2064	1560	1640
	$/sample			$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00
4.	Stabilization Sampling (Guideline 8, quarterly)														
	# of Wells			6	56	44	6	2	19	16	28	89	69	33	33
	Total # samples			*24*	*224*	*176*	*24*	*8*	*76*	*64*	*112*	*356*	*276*	*132*	*132*
	$/sample			$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00	$337.00
5.	Stabilization Sampling (6 parameter bi-monthly)														
	# of Wells			6	56	44	6	2	19	16	28	89	69	33	33
	Total # samples			36	336	264	36	12	114	96	168	534	414	198	198
	$/sample			$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00
6.	Monitor Well Sampling														
	# of Wells			9	69	104	0	0	38	15	72	109	86	78	82
	$/sample			$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00
	Total # samples (2.2/mo for entire period)			54	414	2184	0	0	646	225	4068	6540	5160	3939	4182
7.	Other Laboratory Costs														
	Radon, etc. =	$1,000.00	month												
	Total for Other Laboratory Costs:			$12,000.00	$12,000.00	$42,000.00	$12,000.00	$12,000.00	$34,000.00	$30,000.00	$113,000.00	$120,000.00	$120,000.00	$101,000.00	$102,000.00
	Subtotal Monitoring and Sampling Costs per Mine Unit			**$32,121.00**	**$185,741.00**	**$485,160.00**	**$23,688.00**	**$15,896.00**	**$176,318.00**	**$97,723.00**	**$841,008.00**	**$1,376,505.00**	**$1,108,994.00**	**$816,870.00**	**$858,118.00**
Total Monitoring and Sampling Costs				**$6,018,142.00**											

Ground Water Restoration														
			Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-C22	Mine Unit-C Haul Drifts	Mine Unit-D	Mine Unit-D Ext	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-I	Mine Unit-J
VIII.	*Supervisory Labor Cost (for all Reclamation)*													
	Environmental Manager/RSO Support	$11,593.74 month												
	Restoration Manager Support	$8,219.99 month												
	HP Technician support	$4,828.38 month												
	Active restoration period (months)		0.00	0.00	30.00	0.00	0.00	22.00	18.00	101.00	108.00	108.00	89.00	90.00
	Stabilization period (months)		12	12	12	12	12	12	12	12	12	12	12	12
	Total Restoration Period	11 years												
	Manager support during restoration	$2,615,412.10												
	HP Technician support during restoration	$637,346.69												
	Labor Support 5 each	$2,571,140.00												
	RO ops/maint. Labor, 2 each	$1,028,456.00												
Total Supervisory Labor Costs			**$6,852,354.78**											
TOTAL RESTORATION COST PER WELLFIELD			**$32,121.00**	**$200,864.03**	**$669,570.20**	**$55,671.91**	**$15,896.00**	**$344,301.92**	**$194,016.81**	**$1,427,372.57**	**$3,384,756.12**	**$1,824,153.96**	**$2,315,778.92**	**$1,546,356.60**
			$12,010,860.05											
TOTAL GROUND WATER RESTORATION COSTS			***$21,467,930.92***											
IX.	**Cost of Refurbishing Mine Unit to facilitate restoration**													
	Number of Wells, ea		0	0	55	0	0	0	0	110	150	0	0	0
	Cost to Refurbish Well, $/well		$14,000	$14,000	$14,000	$14,000	$14,000	$14,000	$14,000	$14,000	$14,000	$14,000	$14,000	$14,000
	Number of Bell Holes, ea		0	0	0	0	0	0	0	0	45	0	0	0
	Cost per Bell Hole. $/ea		$8,886	$8,886	$8,886	$8,886	$8,886	$8,886	$8,886	$8,886	$8,886	$8,886	$8,886	$8,886
	Number of Header Houses, ea		0	0	0	0	0	0	0	0	$40	0	0	0
	Cost per Header House, $/ea		$32,000	$32,000	$32,000	$32,000	$32,000	$32,000	$32,000	$32,000	$32,000	$32,000	$32,000	$32,000
	Subtotal cost per Mine Unit		**$0**	**$0**	**$770,000**	**$0**	**$0**	**$0**	**$0**	**$1,540,000**	**$3,779,870**	**$0**	**$0**	**$0**
Total Cost of Refurbishing Mine Unit to facilitate restoration			**$6,089,870**											
TOTAL GROUND WATER RESTORATION COSTS			**$27,557,800.92**											

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Well Abandonment

		Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-C 22	Mine Unit-C Haul Dr	Mine Unit-D	Mine Unit-D Ext	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-I	Mine Unit-J	Delineation Holes General	Totals
I.	**Well Abandonment (Wellfields)**														
	# of Production Wells	0	141	137	0	0	49	13	120	614	136	249	197		1656
	# of Injection Wells	0	188	313	0	0	102	29	237	948	329	459	387		2992
	# of Monitoring Wells	9	69	104	0	0	38	15	72	109	86	78	82		662
	Total Number of Wells	9	398	554	0	0	189	57	429	1671	551	786	666		5310
	Average Diameter of Casing (inches)	5	5	5	5	5	5	5	5	5	5	5	5		
	Production, Injection and Perimeter Well Average Depth (ft)	500	450	550	550	550	600	600	550	650	500	650	540		544
	Total Mine Unit Well Depth (ft), production wells	0	63450	75350	0	0	29400	7800	66000	399100	68000	161850	106380		242000
	Total Mine Unit Well Depth (ft), all others	4500	115650	229350	0	0	84000	26400	169950	687050	207500	349050	253260		629850
	Well Abandonment Unit Cost ($/ft. of well)	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50		
	Well Abandonment (w/pump) Unit Cost ($/ft. of well)	$2.80	$2.80	$2.80	$2.80	$2.80	$2.80	$2.80	$2.80	$2.80	$2.80	$2.80	$2.80		
	Subtotal Abandonment Cost per Wellfield	**$11,250**	**$466,785**	**$784,355**	**$0**	**$0**	**$292,320**	**$87,840**	**$609,675**	**$2,835,105**	**$709,150**	**$1,325,805**	**$931,014**		**$8,053,299**
III.	**Removal of Contaminated Soil Around Wells**														
	# of Production and Injection Wells 4648														
	Cost per well ($/well) 214.23														
	Subtotal Removal of Soil Around Wells	**$995,741.04**													**$995,741.04**
IV.	**Delineation Hole Abandonment**														
	# of Projected Holes	0	0	0	0	0	0	0	0	0	0	0	0	600	
	Average Depth (ft)	500	450	550	550	550	600	600	550	650	500	650	540	600	
	Hole Abandonment Unit Cost ($/ft of hole)	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	$2.50	
	# of holes in 2-5yr revegitation period	0	0	0	0	0	0	0	0	0	0	0	0	600	
	Site Reclamation ($/site)	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	$73.53	
	Subtotal Hole Abandonment per Wellfield	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$944.118**	**$944.118**
V.	**Waste Disposal Well Abandonment**	Morton No. 1-20	Vollman No. 33-27	SRHUP # 9											
A.	Well Sealing														
	Sealing cost per foot (in Reynolds UIC permit)	$11.91	$11.91	$11.91											
	Subtotal Plugging Costs per Well	$107,190	$119,100	$119,100											
B	Pump Dismantling and Decontamination														
	Number of Persons	2	2	2											
	Number of Pumps	2	2	2											
	Pumps/Day	0.5	0.5	0.5											
	Number of Days	4	4	4											
	$/Day/Person	$263	$263	$263											
	Subtotal Dismantling and Decon Costs per Well	$2,104	$2,104	$2,104											
C.	Tubing String Disposal (NRC-Licensed Facility)														
	Length of Tubing String (ft)	9,000	10,000	10,000											
	Diameter of Tubing String (inches)	2.875	2.875	2.875											
	Volume of Tubing String (ft^3)	210	233	233											
	Transportation and Disposal Unit Cost ($/$ft^3$)	$6.06	$6.06	$6.06											
	Subtotal Tubing String Disposal Costs per Well	$1,269	$1,410	$1,410											
	Subtotal Waste Disposal Well Abandonment Costs per Well	$110,562.78	$122,613.78	$122,613.78											
	Total Waste Disposal Well Abandonment Costs	**$355,790.33**													
	Total Wellfield Abandonment Costs	**$10,348,948.37**													

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-C 19N	Mine Unit-C Haul Drifts	Mine Unit-D	Mine Unit-D Ext	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-I	Mine Unit-J	
I. Wellfield Piping				Not Used, Included w/MU-C									
Number of Header Houses per Wellfield	5	18	20	0	0	4	3	15	47	10	12	13	
Approximate Length of Piping per Header House (ft) (ave. 46 wells per with 300 ft	13800	13800	13800	13800	13800	13800	13800	13800	13800	13800	13800	13800	
Approximate Total Length of Piping (ft)	69000	248400	276000	0	0	8000	41400	207000	648600	138000	165600	179400	1981400
A. Removal and Loading													
Wellfield Piping Removal Unit Cost ($/ft of pipe)	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	
Subtotal Wellfield Piping Removal and Loading Costs	$126,270	$454,572	$505,080	$0	$0	$14,640	$75,762	$378,810	$1,186,938	$252,540	$303,048	$328,302	
B. Transport and Disposal Costs (NRC-Licensed Facility)													
Average Diameter of Piping (inches)	2	2	2	2	2	2	2	2	2	2	2	2	
Chipped Volume Reduction (ft^3/ft)	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
Chipped Volume per Wellfield (ft^3)	740	2663	2959	0	0	86	444	2219	6954	1480	1775	1923	
Volume for Disposal Assuming 10% Void Space (ft^3)	814	2930	3255	0	0	94	488	2441	7649	1628	1953	2116	
Transportation and Disposal Unit Cost ($/$ft^3$)	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	
Subtotal Wellfield Piping Transport and Disposal Costs	$4,929	$17,743	$19,711	$0	$0	$569	$2,955	$14,782	$46,319	$9,858	$11,826	$12,814	
Wellfield Piping Costs per Wellfield	$131,199	$472,315	$524,791	$0	$0	$15,209	$78,717	$393,592	$1,233,257	$262,398	$314,874	$341,116	
Total Wellfield Piping Costs	**$3,767,468**												
II. Well Pumps and DownholeTubing													
Assumptions:													
60% of production/injection wells contain pumps and/or tubing													
A. Pump and Tubing Transportation and Disposal													
Number of Production Wells	0	141	137	0	0	49	13	120	614	136	249	197	
Number of Injection Wells	0	188	313	0	0	102	29	237	948	329	459	387	
Number of Monitor Wells	9	69	104			38	15	72	109	86	78	82	
1. Pump Volume													
Number of Production Wells with Pumps	0	141	137	0	0	49	13	120	614	136	249	197	
Average Pump Volume (ft^3) 66"X 3.8" Diam = 5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
Pump Volume per Wellfield (ft^3)	0.0	732.9	712	0	0	255	68	624	3192	707	1294	1024	
2. Tubing Volume													
Assumptions:													
Average tubing length/wellfield based on average well depth minus 25 ft													
Number of Production & Monitor Wells with Tubing	9	210	241	0	0	87	28	192	723	222	327	279	
Number of Injection Wells with Tubing	0	141	137	0	0	49	13	120	614	136	249	197	
Average Tubing Length per Well (ft)	475	425	525	525	525	575	575	525	625	475	625	515	
Tubing Length per Wellfield (ft)	4,275	149,175	198,450	0	0	78,200	23,575	163,800	835,625	170,050	360,000	245,140	
Diameter of Production Well Fiberglass Tubing (inches)	2	2	2	2	2	2	2	2	2	2	2	2	
Diameter of Injection Well HDPE Tubing (inches)	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Chipped Volume Reduction (ft^3/ft)	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
Chipped Volume per Wellfield (ft^3)	46	1599	2128	0	0	838	253	1756	8959	1823	3860	2628	
Volume of Pump and Tubing (ft^3)	46	2332	2840	0	0	1093	321	2380	12151	2530	5154	3652	
Volume for Disposal Assuming 10% Void Space (ft^3)	51	2565	3124	0	0	1202	353	2618	13366	2783	5670	4017	
Transportation and Disposal Unit Cost ($/$ft^3$)	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	
Pump and Tubing Transport and Disposal Costs Per Wellfield	$309	$15,532	$18,917	$0	$0	$7,279	$2,138	$15,853	$80,938	$16,853	$34,335	$24,325	
Total Pump and DownholeTubing Costs	**$216,479**												
III. Buried Trunkline (Includes $ for fiber optic cable removal)													
Assumptions:		inc w/MU-A		inc w/MU-C	inc w/MU-C			inc w/MU-D					
Length of Trunkline Trench (ft)	6500	0	5900	0	0	12000	5500	0	11700	13200	10750	2500	68050
A. Removal and Loading													
Main Pipeline Removal Unit Cost ($/ft of trench)	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83	
Subtotal Trunkline Removal and Loading Costs	$11,895	$0	$10,797	$0	$0	$21,960	$10,065	$0	$21,411	$24,156	$19,673	$4,575	
B. Transport and Disposal Costs (NRC-Licensed Facility)													
1. 1" Carbon Steel Trunkline													

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-C 19N	Mine Unit-C Haul Drifts	Mine Unit-D	Mine Unit-D Ext	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-I	Mine Unit-J	
Piping Length (ft)	0	0	0	0	0	0	0	0	0	0	0	0	0
Volume (ft^3)	0	0	0	0	0	0	0	0	0	0	0	0	
2. 1.5" HDPE Trunkline													
Piping Length (ft)	0	0	0	0	0	0	0	0	0	0	0	0	0
Chipped Volume per Lft (ft^3/ft)	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
Chipped Volume (ft^3)	0	0	0	0	0	0	0	0	0	0	0	0	
3. 3" HDPE Trunkline													
Piping Length (ft)	6500	0	5900	0	0	12000	5500	0	11700	13200	10750	0	29900
Chipped Volume per Lft (ft^3/ft)	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
Chipped Volume (ft^3)	151	0	137	0	0	279	128	0	272	307	250	0	
4. 6" HDPE Trunkline													
Piping Length (ft)	0	0	0	0	0	0	11000	0	0	0	3000	0	14000
Chipped Volume per Lft (ft^3/ft)	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	
Chipped Volume (ft^3)	0	0	0	0	0	0	917	0	0	0	250	0	
5. 8" HDPE Trunkline													
Piping Length (ft)	0	0	0	0	0	0	0	0	0	0	0	0	0
Chipped Volume per Lft (ft^3/ft)	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	
Chipped Volume (ft^3)	0	0	0	0	0	0	0	0	0	0	0	0	
6. 10" HDPE Trunkline													
Piping Length (ft)	13000	0	0	0	0	0	0	0	0	0	750	2000	13750
Chipped Volume per Lft (ft^3/ft)	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	
Chipped Volume (ft^3)	2854	0	0	0	0	0	0	0	0	0	165	439	
7. *12" HDPE Trunkline*													
Piping Length (ft)	0	0	11800	0	0	24000	0	0	0	0	0	2000	35800
Chipped Volume per Lft (ft^3/ft)	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	
Chipped Volume (ft^3)	0	0	3644	0	0	7411	0	0	0	0	0	618	
8. 14" HDPE Trunkline													
Piping Length (ft)	0	0	0	0	0	0	0	0	23400	26400	8500	0	23400
Chipped Volume per Lft (ft^3/ft)	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	
Chipped Volume (ft^3)	0	0	0	0	0	0	0	0	8712	9829	3165	0	
9. 16" HDPE Trunkline													
Piping Length (ft)	0	0	0	0	0	0	0	0	23400	26400	8500	0	23400
Chipped Volume per Lft (ft^3/ft)	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	
Chipped Volume (ft^3)	0	0	0	0	0	0	0	0	11381.40381	12840.55814	4134.270613	0	
10. 18" HDPE Trunkline													
Piping Length (ft)	0	0	0	0	0	0	0	0	0	0	0	0	0
Chipped Volume per Lft (ft^3/ft)	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	
Chipped Volume (ft^3)	0	0	0	0	0	0	0	0	0	0	0	0	
Total Trunkline Chipped Volume (ft^3)	3006	0	3781	0	0	7691	1045	0	20366	22977	7964	1057	
Volume for Disposal Assuming 10% Void Space (ft^3)	3306	0	4159	0	0	8460	1150	0	22403	25275	8761	1162	
Transportation and Disposal Unit Cost ($/ft^3$)	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	$6.06	
Subtotal Trunkline Transport and Disposal Costs	$20,020	$0	$25,185	$0	$0	$51,230	$6,964	$0	$135,662	$153,054	$53,053	$7,037	
Trunkline Decommissioning Costs per Wellfield	$31,915	$0	$35,982	$0	$0	$73,190	$17,029	$0	$157,073	$177,210	$72,726	$11,612	
Total Trunkline Decommissioning Costs	**$576,737**												
IV. Well Head Covers				Inc w/MU-C	Inc w/MU-C								
Total Quantity	90	490	552	0	0	117	97	331	1347	470	361	285	3024
Average Well Head Cover Volume (ft^3)	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	
A. Removal													
Total Volume (ft^3)	167.4	911.4	1026.72	0	0	217.62	180.42	615.66	2505.42	874.2	671.46	530.1	
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft^3$)	$0.249	$0.249	$0.249	$0.249	$0.249	$0.249	$0.249	$0.249	$0.249	$0.249	$0.249	$0.249	
Subtotal Well Head Cover Demolition Costs	$42	$227	$255	$0	$0	$54	$45	$153	$623	$218	$167	$132	

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-C 19N	Mine Unit-C Haul Drifts	Mine Unit-D	Mine Unit-D Ext	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-I	Mine Unit-J
B. Survey and Decontamination												
Cost per Wellhead cover	6.69	6.69	6.69	6.69	6.69	6.69	6.69	6.69	6.69	6.69	6.69	6.69
Subtotal Survey and Decontamination Costs	$602	$3,276	$3,691	$0	$0	$782	$649	$2,213	$9,007	$3,143	$2,414	$1,906
C. Disposal at County landfill facility												
Total Volume (cy)	6	34	38	0	0	8	7	23	93	32	25	20
Volume for disposal assuming 10% void space (cy)	7	37	42	0	0	9	7	25	102	36	27	22
Transportation and Disposal Unit Cost ($/cy)	$8.115	$8.115	$8.115	$8.115	$8.115	$8.115	$8.115	$8.115	$8.115	$8.115	$8.115	$8.115
Subtotal Disposal Costs	$57	$300	$341	$0	$0	$73	$57	$203	$828	$292	$219	$179
Well Head Covers Removal and Disposal Costs per Mine Unit	$701	$3,803	$4,287	$0	$0	$909	$751	$2,569	$10,458	$3,653	$2,800	$2,217
Total Well Head Cover Removal and Disposal Costs	**$32,148**											
V. **Header Houses** (Includes Booster Stations)												
Total Quantity	5	18	20	0	0	4	3	15	47	10	12	13
Average Header House Volume (ft^3)	*800*	*800*	*800*	*800*	*800*	*800*	*800*	*800*	*800*	*800*	*800*	*800*
A. Removal												
Total Volume (ft^3)	4000	14400	16000	0	0	3200	2400	12000	37600	8000	9600	10400
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft^3$)	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230
Subtotal Building Demolition Costs	$919	$3,307	$3,675	$0	$0	$735	$551	$2,756	$8,636	$1,837	$2,205	$2,389
B. Survey and Decontamination												
Cost per Header House	$579	$579	$579	$579	$579	$579	$579	$579	$579	$579	$579	$579
Subtotal Survey and Decontamination Costs	$2,895	$10,422	$11,580	$0	$0	$2,316	$1,737	$8,685	$27,212	$5,790	$6,948	$7,527
C. Disposal												
Total Volume (cy)	148	533	593	0	0	119	89	444	1393	296	356	385
Volume for Disposal Assuming 10% Void Space (cy)	163	587	652	0	0	130	98	489	1532	326	391	424
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12
Subtotal County Landfill Disposal Costs	$1,323	$4,764	$5,291	$0	$0	$1,055	$795	$3,968	$12,433	$2,646	$3,173	$3,441
Headerhouse Soil Removal Volume ft3 (assumes 10'Wx20'Lx2.5'D)	500	500	500	500	500	500	500	500	500	500	500	500
11e.(2) Disposal Unit Cost ($/ft3)	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44
Subtotal 11e.(2) Disposal Costs	$26,094	$93,940	$104,378	$0	$0	$20,876	$15,657	$78,283	$245,288	$52,189	$62,627	$67,846
Header House Removal and Disposal Costs per Wellfield	$31,231	$112,433	$124,924	$0	$0	$24,982	$18,740	$93,692	$293,569	$62,462	$74,953	$81,203
Total Header House Removal and Disposal Costs	**$918,188**											
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD	$195,355	$604,083	$708,901	$0	$0	$121,569	$117,375	$505,706	$1,775,295	$522,576	$499,688	$460,473
VI. **Vehicle Operation Costs**												
Number of Pickup Trucks/Pulling Units (Gas)	10											
Unit Cost in $/hr (UC-Equipment Costs)	$18.08											
Average Operating Time (Hrs/Year)	1000											
Total Number of Years (Average)	11											
Total Vehicle Operation Costs	**$1,988,302**											
VII. **Header Houses** (Includes Booster Stations)	5	18	20	0	0	4	3	15	47	10	12	13
Years of Active Restoration	0.00	0.00	2.50	0.00	0.00	1.83	1.50	8.42	9.00	9.00	7.42	7.50
Heating Cost per Year per header house	$2,581	$2,581	$2,581	$2,581	$2,581	$2,581	$2,581	$2,581	$2,581	$2,581	$2,581	$2,581
Heating Costs per year	$0	$0	$129,060	$0	$0	$18,929	$11,615	$325,877	$1,091,848	$232,308	$229,727	$251,667
Total Header Heating cost	**$2,291,030**											
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL	**$9,790,352**											

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Wellfield and Satellite Surface Reclamation	Mine Unit-A/B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
I. Wellfield Pattern Area Reclamation										
Pattern Area (acres)	42.75	67.5	12.375	49.5	171	56.25	9	45	60.75	0
Discing/Seeding Unit Cost ($/acre)	$606	$606	$606	$606	$606	$606	$606	$606	$606	$606
Subtotal Pattern Area Reclamation Costs per Wellfield	$25,922	$40,930	$7,504	$30,015	$103,689	$34,108	$5,457	$27,287	$36,837	$0
Total Wellfield Pattern Area Reclamation Costs	**$311,749**									
II. *Wellfield Road Reclamation*										
Road Construction										
Length of Wellfield Roads (1000 ft)	12.8	11.3	2.4	13.3	18	15.7	5	5	5	1
Wellfield Road Reclamation Unit Cost ($/1000 ft)	$1,019	$1,019	$1,019	$1,019	$1,019	$1,019	$1,019	$1,019	$1,019	$1,019
Wellfield Road Reclamation Costs	$13,043	$11,515	$2,446	$13,553	$18,342	$15,998	$5,095	$5,095	$5,095	$1,019
Total Wellfield Road Reclamation Costs	**$91,201**									
III. Laydown area reclamation										
Area of Disturbance (acres)	1	1	1	1	1	1	1	1	1	1
Average Depth of Stripped Topsoil (ft)	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Surface Grade: Level Ground										
Average Length of Topsoil Haul (ft)	500	500	500	500	500	500	500	500	500	500
A. Ripping Overburden with Dozer										
Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)	$902.70	$902.70	$902.70	$902.70	$902.70	$902.70	$902.70	$902.70	$902.70	$902.70
Subtotal Ripping Costs	$903.00	$903.00	$903.00	$903.00	$903.00	$903.00	$903.00	$903.00	$903.00	$903.00
B. Topsoil Application with Scraper										
Volume of Topsoil Removed (cy)	*1081*	*1081*	*1081*	*1081*	*1081*	*1081*	*1081*	*1081*	*1081*	*1081*
Application Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.85	$0.85	$0.85	$0.85	$0.85	$0.85	$0.85	$0.85	$0.85	$0.85
Subtotal Topsoil Application Costs	$921	$921	$921	$921	$921	$921	$921	$921	$921	$921
C. Discing and Seeding										
Discing/Seeding Unit Cost ($/acre)	$606	$606	$606	$606	$606	$606	$606	$606	$606	$606
Subtotal Discing/Seeding Costs	$606	$606	$606	$606	$606	$606	$606	$606	$606	$606
Subtotal Surface Reclamation Costs per WF laydown area	$2,430	$2,430	$2,430	$2,430	$2,430	$2,430	$2,430	$2,430	$2,430	$2,430
Total Wellfield Laydown Area Reclamation Costs	**$24,300**									
SUBTOTAL SURFACE RECLAMATION COSTS PER WELLFIELD	**$41,395**	**$54,875**	**$12,380**	**$45,998**	**$124,461**	**$52,536**	**$12,982**	**$34,812**	**$44,362**	**$3,449**
TOTAL WELLFIELD SURFACE RECLAMATION COSTS	**$427,250**									
IV. Satellite Area Reclamation	**Satellite No.1**	**Satellite No.2**	**Satellite No.3**	**Se Plant**						
Assumptions:										
Area of Disturbance (acres)	1	3	2.5	2						
Average Depth of Stripped Topsoil (ft)	1	0.67	0.67	0.67						
Surface Grade: Level Ground										
Average Length of Topsoil Haul (ft)	1000	500	500	500						
A. Ripping Overburden with Dozer										
Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)	$902.70	$902.70	$902.70	$902.70						
Subtotal Ripping Costs	$903.00	$2,708.00	$2,257	$1,805						
B. Topsoil Application with Scraper										
Volume of Topsoil Removed (cy)	1613	3243	2702	2162						
Application Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$1.02	$1.02	$1.02	$1.02						
Subtotal Topsoil Application Costs	$1,642	$3,301	$2,751	$2,201						
C. Discing and Seeding										
Discing/Seeding Unit Cost ($/acre)	$606	$606	$606	$606						
Subtotal Discing/Seeding Costs	$606	$1,819	$1,516	$1,213						
Subtotal Surface Reclamation Costs per Satellite	$3,151	$7,828	$6,524	$5,219						
Total Satellite Building Area Reclamation Costs	**$22,722**									
TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS	**$449,972.00**									

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Equipment Removal and Loading	Central Plant	Satellite No. 1	Satellite No. 2	Satellite No. 3	Se Plant
I. Removal and Loading Costs					
A. Tankage					
Number of Tanks	26	8	14	18	7
Volume of Tank Construction Material (ft^3)	1028	162	290	397	290
Labor					
Number of Persons	4	4	4	4	4
Ft^3/Day	25	25	25	25	25
Number of Days	41	6	12	16	12
$/Day/Person	$263	$263	$263	$263	$263
Subtotal Labor Costs	$43,254	$6,816	$12,202	$16,704	$12,202
Equipment					
Number of Days	41	6	12	16	12
$/Day	$1,933	$1,933	$1,933	$1,933	$1,933
Subtotal Equipment Costs	$79,478	$12,525	$22,421	$30,693	$22,421
Subtotal Tankage Removal and Loading Costs	$122,732	$19,341	$34,623	$47,397	$34,623
B. PVC/Steel Pipe					
PVC Pipe Footage	10000	1000	4000	4000	4000
Average PVC Pipe Diameter (inches)	3	3	3	3	3
Shredded PVC Pipe Volume Reduction (ft^3/ft)	0.023	0.023	0.023	0.023	0.023
Volume of Shredded PVC Pipe (ft^3)	233	23	93	93	93
Steel Pipe Footage	2000	0	0	0	0
Average Steel Pipe Diameter (inches)	2	0	0	0	0
Volume (ft^3)	0	0	0	0	0
Labor & Equipment					
Number of Persons	4	4	4	4	4
Ft/Day	300	300	300	300	300
Number of Days	40.00	3	13.33	13.33	13.33
$/Day/Person	$263	$263	$263	$263	$263
$/ Day Equipment	$1,108	$1,108	$1,108	$1,108	$1,108
Subtotal PVC/Steel Pipe Labor & Equipment Costs	$86,402	$7,200	$28,801	$28,801	$28,801
Subtotal PVC/Steel Pipe Removal and Loading Costs	$86,402	$7,200	$28,801	$28,801	$28,801
C. Pumps					
Number of Pumps	50	10	14	13	14
Average Volume (ft^3/pump)	4.93	4.93	4.93	4.93	4.93
Volume of Pumps (ft^3)	246.5	49.3	69.02	64.09	69.02

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Equipment Removal and Loading	Central Plant	Satellite No. 1	Satellite No. 2	Satellite No. 3	Se Plant
Labor & Equipment					
Number of Persons	2	2	2	2	2
Pumps/Day	2	2	2	2	2
Number of Days	25	5	7	6.5	7
$/Day/Person	$263	$263	$263	$263	$263
$/ Day Equipment	$314	$314	$314	$314	$314
Subtotal Labor & Equipment Costs	$21,010	$4,202	$5,883	$5,463	$5,883
Subtotal Pump Removal and Loading Costs	$21,010	$4,202	$5,883	$5,463	$5,883
D. Dryer					
Dryer Volume (ft^3)	885				
Labor & Equipment					
Number of Persons	4	0	0	0	0
Ft^3/Day	125	0	0	0	0
Number of Days	7.08	0	0	0	0
$/Day/Person	$263	$263	$263	$263	$263
$/Day Equipment (includes crane with operator)	$2,289				
Total Labor & Equipment Cost	$23,657	$0	$0	$0	$0
Total Number of Dryers	3	0	0	0	0
Total Dryer Dismantling and Loading Cost	$70,971	$0	$0	$0	$0
E. RO Units					
Number of RO Units					
Current	0	0	2	0	0
Planned	0	0	3	0	2
Average Volume (ft3/RO Unit)	250	250	250	250	250
Labor & Equipment					
Number of Persons	2	2	2	2	2
Number of Days		0	5	0	2
$/Day/Person	$262.97	$262.97	$262.97	$262.97	$262.97
$/ Day Equpment	$545.17	$545.17	$545.17	$545.17	$545.17
Subtotal RO Unit Removal and Loading Costs	$0	$0	$5,356	$0	$2,142
Subtotal Equipment Removal and Loading Costs per Facility	$301,115	$30,743	$74,663	$81,661	$71,449
Total Equipment Removal and Loading Costs	**$559,631**				
II. Transportation and Disposal Costs (NRC-Licensed Facility)					
A. Tankage					
Volume of Tank Construction Material (ft^3)	1028	162	290	397	290

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Equipment Removal and Loading				Central Plant	Satellite No. 1	Satellite No. 2	Satellite No. 3	Se Plant
		Volume for Disposal Assuming 10% Void Space (ft^3)		1131	178	319	437	319
		Transportation and Disposal Unit Cost ($/ft^3$)		$6.06	$6.06	$6.06	$6.06	$6.06
		Subtotal Tankage Transportation and Disposal Costs		$6,849	$1,078	$1,932	$2,646	$1,932
	B.	PVC / Steel Pipe						
		Volume of Shredded PVC Pipe (ft^3)		233	23	93	93	93
		Volume for Disposal Assuming 10% Void Space (ft^3)		256	25	102	102	102
		Volume of Steel Pipe (ft^3)		0	0	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft^3)		0	0	0	0	0
		Transportation and Disposal Unit Cost ($/ft^3$)		$6.06	$6.06	$6.06	$6.06	$6.06
		Subtotal PVC Pipe Transportation and Disposal Costs		$1,550	$151	$618	$618	$618
	C.	Pumps						
		Volume of Pumps (ft^3)		246.5	49.3	69.02	64.09	69.02
		Volume for Disposal Assuming 10% Void Space (ft^3)		271	54	76	70	76
		Transportation and Disposal Unit Cost ($/ft^3$)		$6.06	$6.06	$6.06	$6.06	$6.06
		Subtotal Pump Transportation and Disposal Costs		$1,641	$327	$460	$424	$460
	D.	Dryer						
		Dryer Volume (ft^3)		885	0	0	0	0
		Volume for Disposal Assuming Dryer Remains Intact (ft^3)		885	0	0	0	0
		Transportation and Disposal Unit Cost ($/ft^3$)		$6.06	$6.06	$6.06	$6.06	$6.06
		Total Dryer Transportation and Disposal Costs		$5,359	$0	$0	$0	$0
	E.	RO Units						
		Volume of RO Units (ft^3)		0	0	1250	0	500
		Volume for Disposal Assuming 50% Volume Reduction (ft^3)		0	0	625	0	250
		Transportation and Disposal Unit Costs		$6.06	$6.06	$6.06	$6.06	$6.06
		Subtotal RO Unit Transportation and Disposal Costs		$0	$0	$3,785	$0	$1,514
		Subtotal Equipment Transportation and Disposal Costs per Facility		$15,399	$1,556	$6,795	$3,688	$4,524
		Total Equipment Transportation and Disposal Costs		**$31,962**				
III.	**Health and Safety Costs**							
		Radiation Safety Equipment	Accounted for on GW REST					
		Total Health and Safety Costs						
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY				$316,514	$32,299	$81,458	$85,349	$75,973
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS				**$591,593**				

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Building Demolition and Disposal (Highland Uranium Project Buildings)	Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No. 3 Fab Shop	Yellowcake Warehouse	South Warehouse	Suspended Walkway
I. Decontamination Costs									
A. Wall Decontamination									
Area to be Decontaminated (ft^2)	131,000	20,000	0	0	0	0	0	0	0
HCl Acid Wash, including labor ($/$ft^2$)	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48
Subtotal Wall Decontamination Costs	$63,028	$9,623	$0	$0	$0	$0	$0	$0	$0
B. Concrete Floor Decontamination									
Area to be Decontaminated (ft^2)	17,820	0	6,000	9,600	9,600	0	0	0	0
HCl Acid Wash, including labor ($/$ft^2$)	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51
Subtotal Concrete Floor Decontamination Costs	$9,136	$0	$3,076	$4,922	$4,922	$0	$0	$0	$0
C. Deep Well Injection Costs									
Total Kgals for Injection (1 gal used per ft2)	148.82	20	6	9.6	9.6	0	0	0	0
Deep Well Injection Unit Cost ($/Kgals)	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66
Subtotal Deep Well Injection Costs	$99	$13	$4	$6	$6	$0	$0	$0	$0
Subtotal Decontamination Costs per Building	$72,263	$9,636	$3,080	$4,928	$4,928	$0	$0	$0	$0
Total Decontamination Costs	**$104,926**								
II. Demolition Costs									
A. Building									
Volume of Building (ft^3)	794,000	30,720	192,000	320,000	320,000	37,560	91,000	333,000	5,600
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25
Subtotal Building Demolition Costs	$197,563	$7,644	$47,773	$79,622	$79,622	$9,346	$22,643	$82,857	$1,393
B. Concrete Floor									
Area of Concrete Floor (ft^2)	23,760	500	8,000	12800	12800	0	6500	18000	0
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft2)	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05
Subtotal Concrete Floor Demolition Costs	$120,058	$2,526	$40,424	$64,678	$64,678	$0	$32,844	$90,953	$0
C. Concrete Footing									
Length of Concrete Footing (ft)	617	89	358	453	453	0	322	537	0
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft)	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14
Subtotal Concrete Footing Demolition Costs	$11,182	$1,622	$6,488	$8,207	$8,207	$0	$5,848	$9,732	$0
Subtotal Demolition Costs per Building	$328,803	$11,792	$94,685	$152,507	$152,507	$9,346	$61,335	$183,542	$1,393
Total Demolition Costs	**$1,401,883**								
III. Disposal Costs									
A. Building									
Volume of Building (cy)	29407	1138	7111	11852	11852	1391	3370	12333	207
Off-Site County Landfill									
Percentage (%)	100	100	100	100	100	100	100	100	100
Volume for Disposal (cubic yards)	29407	1138	7111	11852	11852	1391	3370	12333	207
Disposal Unit Cost ($/cy)	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12
Subtotal County Facility Off-Site Disposal Costs	$238,652	$9,233	$57,709	$96,182	$96,182	$11,289	$27,352	$100,089	$1,683
B. Concrete Floor									
Area of Concrete Floor (ft^2)	23760	500	8000	12800	12800	0	6500	18000	1186

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Building Demolition and Disposal (Highland Uranium Project Buildings)	Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No. 3 Fab Shop	Yellowcake Warehouse	South Warehouse	Suspended Walkway
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft^3)	17820	375	6000	9600	9600	0	4875	13500	889.5
Volume of Concrete Floor (cy)	660	14	222	356	356	0	181	500	33
1. Off-Site County Landfill									
Percentage (%)	75	75	75	100	100	100	100	100	100
Volume for Disposal (cy)	495	10	167	356	356	0	181	500	33
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12
Subtotal County Facility Off-Site Disposal Costs	$4,017	$85	$1,353	$2,885	$2,885	$0	$1,465	$4,058	$267
2. NRC-Licensed Facility									
Percentage (%)	25	25	25	0	0	0	0	0	0
Volume for Disposal (ft^3)	4455	94	1500	0	0	0	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44
Subtotal NRC-Licensed Facility Disposal Costs	$46,500	$979	$15,657	$0	$0	$0	$0	$0	$0
Subtotal Concrete Floor Disposal Costs	$50,517	$1,064	$17,010	$2,885	$2,885	$0	$1,465	$4,058	$267
C. Concrete Footing									
Length of Concrete Footing (ft)	617	89	358	453	453	0	322	537	124
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	1
Volume of Concrete Footing (ft^3)	2466	358	1431	1810	1810	0	1290	2147	496
Volume of Concrete Footing (cy)	91	13	53	67	67	0	48	80	18
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12
Subtotal Concrete Footing Disposal Costs (county landfill)	$741	$108	$430	$544	$544	$0	$388	$645	$149
Subtotal Disposal Costs per Building	$289,910	$10,405	$75,149	$99,611	$99,611	$11,289	$29,205	$104,792	$2,099
Total Disposal Costs	**$921,099**								
IV. Health and Safety Costs Accounted for on GW REST									
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$690,976	$31,833	$172,914	$257,046	$257,046	$20,635	$90,540	$288,334	$3,492
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	**$2,427,908**								
Building Utility Costs									
Number of years of operation required for restoration/reclamation	0	0	0	11	0	0	0	0	0
SUBTOTAL BUILDING ELECTRICAL COSTS (UC-Electrical Power)	$0.00	$0.00	$0.00	$238,810.00	$0.00	$0.00	$0.00	$0.00	$0.00
TOTAL BUILDING ELECTRICITY COSTS	**$578,188**								
SUBTOTAL PROPANE AND NATURAL GAS COSTS (UC-Heating Cost)				$33,371.99					
TOTAL PROPANE AND NATURAL GAS COSTS	$113,965								
TOTAL UTILITY COSTS	**$692,153.65**								

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Building Demolition and Disposal (Highland Uranium Project Buildings)	Changehouse and Lab	Maintenance Bldg	Main Office	Office Trailers	Process/ Fire Water	Potable Water Bldg	Potable Water Tank Slab	Central Plant Tank Slabs	Selenium Plant	Exxon R&D RO Bldg.
I. Decontamination Costs										
A. Wall Decontamination										
Area to be Decontaminated (ft^2)	0	0	0	0	0	0	0	0	4,000	0
HCl Acid Wash, including labor ($/$ft^2$)	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48	$0.48
Subtotal Wall Decontamination Costs	$0	$0	$0	$0	$0	$0	$0	$0	$1,925	$0
B. Concrete Floor Decontamination										
Area to be Decontaminated (ft^2)	0	0	0	0	0	0	0	0	9,600	1260
HCl Acid Wash, including labor ($/$ft^2$)	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51	$0.51
Subtotal Concrete Floor Decontamination Costs	$0	$0	$0	$0	$0	$0	$0	$0	$4,922	$646
C. Deep Well Injection Costs										
Total Kgals for Injection (1 gal used per ft2)	0	0	0	0	0	0	0	0	13.6	1.26
Deep Well Injection Unit Cost ($/Kgals)	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66
Subtotal Deep Well Injection Costs	$0	$0	$0	$0	$0	$0	$0	$0	$9	$1
Subtotal Decontamination Costs per Building	$0	$0	$0	$0	$0	$0	$0	$0	$6,856	$647
Total Decontamination Costs										
II. Demolition Costs										
A. Building										
Volume of Building (ft^3)	73000	27,000	72,000	20,000	16,500	6,300	0	0	320,000	15120
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25	$0.25
Subtotal Building Demolition Costs	$18,164	$6,718	$17,915	$4,976	$4,106	$1,568	$0	$0	$79,622	$3,762
B. Concrete Floor										
Area of Concrete Floor (ft^2)	5400	2100	6000	0	800	180	1256	7854	12800	1260
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft2)	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05	$5.05
Subtotal Concrete Floor Demolition Costs	$27,286	$10,611	$30,318	$0	$4,042	$910	$6,347	$39,686	$64,678	$6,367
C. Concrete Footing										
Length of Concrete Footing (ft)	294	183	310	0	113	54	0	0	453	142
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft)	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14	$18.14
Subtotal Concrete Footing Demolition Costs	$5,331	$3,324	$5,619	$0	$2,052	$973	$0	$0	$8,207	$2,575
Subtotal Demolition Costs per Building	$50,781	$20,653	$53,852	$4,976	$10,200	$3,451	$6,347	$39,686	$152,507	$12,704
Total Demolition Costs										
III. Disposal Costs										
A. Building										
Volume of Building (cy)	2704	1000	2667	741	611	233	0	0	11852	560
Off-Site County Landfill										
Percentage (%)	100	100	100	100	100	100	100	100	100	100
Volume for Disposal (cubic yards)	2704	1000	2667	741	611	233	0	0	11852	560
Disposal Unit Cost ($/cy)	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12
Subtotal County Facility Off-Site Disposal Costs	$21,942	$8,115	$21,641	$6,011	$4,959	$1,894	$0	$0	$96,182	$4,545
B. Concrete Floor										
Area of Concrete Floor (ft^2)	0	2100	6000	0	800	180	1256	7854	12800	1260

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Building Demolition and Disposal (Highland Uranium Project Buildings)	Changehouse and Lab	Maintenance Bldg	Main Office	Office Trailers	Process/ Fire Water	Potable Water Bldg	Potable Water Tank Slab	Central Plant Tank Slabs	Selenium Plant	Exxon R&D RO Bldg.
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft^2)	0	1575	4500	0	600	135	942	5890.5	9600	945
Volume of Concrete Floor (cy)	0	58	167	0	22	5	35	218	356	35
1. Off-Site County Landfill										
Percentage (%)	100	100	100	100	100	100	100	100	100	100
Volume for Disposal (cy)	0	58	167	0	633	5	35	218	356	35
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12
Subtotal County Facility Off-Site Disposal Costs	$0	$473	$1,353	$0	$5,140	$41	$283	$1,771	$2,885	$284
2. NRC-Licensed Facility										
Percentage (%)	0	0	0	0	0	0	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0	0	0	0	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44	$10.44
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Concrete Floor Disposal Costs	$0	$473	$1,353	$0	$5,140	$41	$283	$1,771	$2,885	$284
C. Concrete Footing										
Length of Concrete Footing (ft)	0	183	310	0	113	54	0	0	453	142
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	1	1
Volume of Concrete Footing (ft^3)	0	733	1239	0	453	215	0	0	1810	568
Volume of Concrete Footing (cy)	0	27	46	0	17	8	0	0	67	21
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12	$8.12
Subtotal Concrete Footing Disposal Costs (county landfill)	$0	$220	$373	$0	$136	$65	$0	$0	$544	$171
Subtotal Disposal Costs per Building	$21,942	$8,808	$23,367	$6,011	$10,235	$2,000	$283	$1,771	$99,611	$5,000
Total Disposal Costs										
IV. Health and Safety Costs Accounted for on GW REST										
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$72,723	$29,461	$77,219	$10,987	$20,435	$5,451	$6,630	$41,457	$258,974	$18,351
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS										
Building Utility Costs										
Number of years of operation required for restoration/reclamation	0	0	0	0	0	0	0	0	7	0
SUBTOTAL BUILDING ELECTRICAL COSTS (UC-Electrical Power)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$226,822.86	$0.00
TOTAL BUILDING ELECTRICITY COSTS										
SUBTOTAL PROPANE AND NATURAL GAS COSTS (UC-Heating Cost)									$80,593	
TOTAL PROPANE AND NATURAL GAS COSTS										
TOTAL UTILITY COSTS										

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Building Demolition and Disposal (Highland Uranium Project Buildings)	Exxon R&D Process Bldg.	SRHUP 9 DDW	VOLLMAN 33-27 DDW	MORTON 1 20 DDW
I. Decontamination Costs				
A. Wall Decontamination				
Area to be Decontaminated (ft^2)	0	0	0	0
HCl Acid Wash, including labor ($/$ft^2$)	$0.48	$0.48	$0.48	$0.48
Subtotal Wall Decontamination Costs	$0	$0	$0	$0
B. Concrete Floor Decontamination				
Area to be Decontaminated (ft^2)	1260	1260	1260	1260
HCl Acid Wash, including labor ($/$ft^2$)	$0.51	$0.51	$0.51	$0.51
Subtotal Concrete Floor Decontamination Costs	$646	$646	$646	$646
C. Deep Well Injection Costs				
Total Kgals for Injection (1 gal used per ft2)	1.26	1.26	1.26	1.26
Deep Well Injection Unit Cost ($/Kgals)	$0.66	$0.66	$0.66	$0.66
Subtotal Deep Well Injection Costs	$1	$1	$1	$1
Subtotal Decontamination Costs per Building	$647	$647	$647	$647
Total Decontamination Costs				
II. Demolition Costs				
A. Building				
Volume of Building (ft^3)	15120	15120	15120	15120
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.25	$0.25	$0.25	$0.25
Subtotal Building Demolition Costs	$3,762	$3,762	$3,762	$3,762
B. Concrete Floor				
Area of Concrete Floor (ft^2)	1260	1260	1260	1260
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft2)	$5.05	$5.05	$5.05	$5.05
Subtotal Concrete Floor Demolition Costs	$6,367	$6,367	$6,367	$6,367
C. Concrete Footing				
Length of Concrete Footing (ft)	142	142	142	142
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft)	$18.14	$18.14	$18.14	$18.14
Subtotal Concrete Footing Demolition Costs	$2,575	$2,575	$2,575	$2,575
Subtotal Demolition Costs per Building	$12,704	$12,704	$12,704	$12,704
Total Demolition Costs				
III. Disposal Costs				
A. Building				
Volume of Building (cy)	560	560	560	560
Off-Site County Landfill				
Percentage (%)	100	100	100	100
Volume for Disposal (cubic yards)	560	560	560	560
Disposal Unit Cost ($/cy)	$8.12	$8.12	$8.12	$8.12
Subtotal County Facility Off-Site Disposal Costs	$4,545	$4,545	$4,545	$4,545
B. Concrete Floor				
Area of Concrete Floor (ft^2)	1260	1260	1260	1260

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	Exxon R&D Process Bldg.	SRHUP 9 DDW	VOLLMAN 33-27 DDW	MORTON 1 20 DDW
Building Demolition and Disposal (Highland Uranium Project Buildings)				
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft^3)	945	945	945	945
Volume of Concrete Floor (cy)	35	35	35	35
1. Off-Site County Landfill				
Percentage (%)	100	100	100	100
Volume for Disposal (cy)	35	35	35	35
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12	$8.12	$8.12	$8.12
Subtotal County Facility Off-Site Disposal Costs	$284	$284	$284	$284
2. NRC-Licensed Facility				
Percentage (%)	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$10.44	$10.44	$10.44	$10.44
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0
Subtotal Concrete Floor Disposal Costs	$284	$284	$284	$284
C. Concrete Footing				
Length of Concrete Footing (ft)	142	142	142	142
Average Depth of Concrete Footing (ft)	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	1
Volume of Concrete Footing (ft^3)	568	568	568	568
Volume of Concrete Footing (cy)	21	21	21	21
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12	$8.12	$8.12	$8.12
Subtotal Concrete Footing Disposal Costs (county landfill)	$171	$171	$171	$171
Subtotal Disposal Costs per Building	$5,000	$5,000	$5,000	$5,000
Total Disposal Costs				
IV. Health and Safety Costs Accounted for on GW REST				
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$18,351	$18,351	$18,351	$18,351
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS				
Building Utility Costs				
Number of years of operation required for restoration/reclamation	0	11	11	11
SUBTOTAL BUILDING ELECTRICAL COSTS (UC-Electrical Power)	$0.00	$37,522.31	$37,510.79	$37,522.31
TOTAL BUILDING ELECTRICITY COSTS				
SUBTOTAL PROPANE AND NATURAL GAS COSTS (UC-Heating Cost)				
TOTAL PROPANE AND NATURAL GAS COSTS				
TOTAL UTILITY COSTS				

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Miscellaneous Reclamation									
I.	**CP/Office Area Reclamation**								
		Concrete Pad= 0.3 acres							
		Total Area = 10 acres							
	A.	Asphalt							
		Area of Asphalt (acres)	3.4						
		Demolition Unit Cost per WDEQ Guideline No.12,App.I ($/acre)	$664.28						
		Average Thickness (ft)	0.50						
		Hauling Unit Cost per WDEQ Guideline No. 12, App C (500 ft, 0% grade)	$0.852						
		Volume of Asphalt (cy)	2,743						
		Disposal Average Cost per WDEQ Guideline No.12,App.K ($/cy)	$8.12						
		Subtotal Concrete Pad Demolition and Disposal Costs	**$24,519**						
	B.	Ripping Overburden with Dozer							
		Overburden Surface Area (acres)	10.6						
		Ripping Unit Cost per WDEQ Guideline No.12, App.II ($/acre)	$902.70						
		Subtotal Ripping Overburden Costs	**$9,542**						
	C.	*Topsoil Application*							
		Area of surface disturbance (ft^2)	130680						
		Average thickness of topsoil (ft)	0.5						
		Average haul distance (ft)	2000						
		Surface grade (%)	0%						
		Volume of Topsoil (cy)	2,420						
		Movement of Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$1.32						
		Subtotal Topsoil Application Costs	**$3,192**						
	D.	Discing/Seeding							
		Surface Area (acres)	13						
		Discing/Seeding Unit Cost ($/acre)	$606						
		Subtotal Discing/Seeding Costs	**$7,883**						
	Total CPP/Office/Yard Area Reclamation		**$45,136**						
II.	**Access Road Reclamation (includes culverts)**		**CPF/Office Area**	**Sat No. 1**	**Sat No. 3**	**Connecting Road**	**Sat No. 2 to Rancher Rd**		
	A.	Assumptions							
		Surface grade	5%	0%	0%	0%	0%		
		Length of Road (ft)	13200	15840	5280	10560	2640		
		Width of Road (ft)	25	30	30	30	10		
		Area of road (acres)	7.6	10.9	3.6	7.3	0.6		
	B.	Ripping and Hauling Asphalt							
		Assumptions							
		Average Haul Distance (feet)	5500	0	0	0	0.0		
		Average Thickness of Asphalt (ft)	0.5	0	0	0	0.0		
		Ripping Unit Cost Per WDEQ Guideline No. 12, App I ($/acre)	$664.28	$664.28	$664.28	$664.28	$664.28		
		Volume of Asphalt (cy)	6111	0	0	0	0		
		Hauling Unit Cost per WDEQ Guideline No. 12, App C ($/cy)	$3.57	$3.57	$3.57		$3.57		
	C.	Gravel Road Base Removal							
		Average haul distance (ft)	0	1000	1000	1000	0		
		Gravel Road Base Width (ft)	0	14	14	14			
		Gravel Road Base Area (acres)	0.00	5.09	1.70	3.39			
		Average Road Base Depth (ft)	0	0.5	0.5	0.5			
		Volume of Road Base (cy)	0	4107	1369	2738			

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Miscellaneous Reclamation									
		Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.00	$1.02	$1.02	$1.02		
		Subtotal Gravel Road Base Removal Costs	$0	$4,181	$1,394	$2,787	$0	
	D.	Ripping Overburden with Dozer						
		Overburden Surface Area (acres)	0.0	10.9	3.6	7.3	0.6	
		Ripping Unit Cost per WDEQ Guideline No.12, App.11 ($/acre)	$902.70	$902.70	$902.70	$902.70	$902.70	
		Subtotal Ripping Overburden Costs	$0	$9,848	$3,283	$6,565	$547	
	E.	Topsoil Application						
		Average haul distance (ft)	1500	5000	1500	1500	1500	
		Topsoil Surface Area (ft^2)	330000	475200	158400	316800	26400	
		Depth of Topsoil (ft)	0.5	0.5	0.5	0.5	0.5	
		Volume of Topsoil (cy)	6111	8800	2933	5867	489	
		Movement of Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$1.02	$1.02	$1.02	$1.02	$1.02	
		Subtotal Topsoil Application Costs	$6,221	$8,958	$2,986	$5,972	$498	
	F	Discing/Seeding						
		Surface Area (acres)	7.6	10.9	3.6	7.3	0.6	
		Discing/Seeding Unit Cost ($/acre)	$606	$606	$606	$606	$606	
		Subtotal Discing/Seeding Costs	$4,594	$6,615	$2,205	$4,410	$367	
	Multiplier for Projected Additions		0	0	0	0	0	
	Subtotal Reclamation Costs per Access Road		$10,815	$29,602	$9,868	$19,734	$1,412	
	Total Access Road Reclamation Costs		**$71,431**					
III.	**Trunk Lines**		**SAT2 to Morton \WW Pipeline**	**SAT3 to SAT2 PSR**	**H-WF Rest. Bypass**	**Vollman WW Pipeline**	**SRHUP 9 WW Pipeline**	**Waste Transfer CPP to Sat #3**
		Length of Trench (ft)	24000	22000	2200	13000	4000	9700
	A.	Removal and Loading						
		Main Pipeline Removal Unit Cost ($/ft of trench)	$1.83	$1.83	$1.83	$1.83	$1.83	$1.83
		Subtotal Trunkline Removal and Loading Costs	$43,920	$40,260	$4,026	$23,790	$7,320	$17,751
	B.	Transport and Disposal Costs (NRC-Licensed Facility)						
		1. 3" HDPE Trunkline						
		Piping Length (ft)	24000	0	2200		4000	0
		Chipped Volume Reduction (ft^3/ft)	0.023	0.023	0.023	0.023	0.023	0.023
		Chipped Volume (ft^3)	559	0	51	0	93	0
		2. 4" HDPE Trunkline						
		Piping Length (ft)	0	22000	0	13000	0	9700
		Chipped Volume Reduction (ft^3/ft)	0.038	0.038	0.038	0.038	0.038	0.038
		Chipped Volume (ft^3)	0	846	0	500	0	373
		2. 6" HDPE Trunkline						
		Piping Length (ft)	0	0	0	0	0	0
		Chipped Volume Reduction (ft^3/ft)	0.083	0.083	0.083	0.083	0.083	0.083
		Chipped Volume (ft^3)	0	0	0	0	0	0
		3. 8" HDPE Trunkline						
		Piping Length (ft)	0	0	0	0	0	0
		Chipped Volume Reduction (ft^3/ft)	0.141	0.141	0.141	0.141	0.141	0.141
		Chipped Volume (ft^3)	0	0	0	0	0	0
		3. 10" HDPE Trunkline						
		Piping Length (ft)	0	0	0	0	0	0

Miscellaneous Reclamation											
			Chipped Volume Reduction (ft^3/ft)			0.220	0.220	0.220	0.220	0.220	0.220
			Chipped Volume (ft^3)			0	0	0	0	0	0
		4.	12" HDPE Trunkline								
			Piping Length (ft)			0	0	0	0	0	0
			Chipped Volume Reduction (ft^3/ft)			0.309	0.309	0.309	0.309	0.309	0.309
			Chipped Volume (ft^3)			0	0	0	0	0	0
		5.	14" HDPE Trunkline								
			Piping Length (ft)			0	0	0	0	0	0
			Chipped Volume Reduction (ft^3/ft)			0.372	0.372	0.372	0.372	0.372	0.372
			Chipped Volume (ft^3)			0	0	0	0	0	0
		5.	16" HDPE Trunkline								
			Piping Length (ft)			0	0	0	0	0	0
			Chipped Volume Reduction (ft^3/ft)			0.486	0.486	0.486	0.486	0.486	0.486
			Chipped Volume (ft^3)			0	0	0	0	0	0
		6	*18" HDPE Trunkline*								
			Piping Length (ft)			0	0	0	0	0	0
			Chipped Volume Reduction (ft^3/ft)			0.616	0.616	0.616	0.616	0.616	0.616
			Chipped Volume (ft^3)			0	0	0	0	0	0
		Total Pipeline Disposal Volume				559	846	51	500	93	373
			Volume for Disposal Assuming 10% Void Space (ft^3)			615	931	56	550	102	410
			Transportation and Disposal Unit Cost (NRC-Licensed Facility) ($/ft^3$)			$6.06	$6.06	$6.06	$6.06	$6.06	$6.06
		Subtotal Transport and Disposal Costs				$3,724	$5,638	$339	$3,331	$618	$2,483
	C.	Discing/Seeding									
			Width of Pipeline Trench (ft)			10	10	8	8	8	4
			Area of Pipeline Trench (acres)			5.5	5.1	0.4	2.4	0.7	0.9
			Discing/Seeding Unit Cost ($/acre)			$606	$606	$606	$606	$606	$606
		Subtotal Discing/Seeding Costs				$3,341	$3,062	$245	$1,448	$445	$540
	Subtotal Reclamation Costs per Pipeline					$50,985	$48,960	$4,610	$28,569	$8,383	$20,774
	Total Pipeline Reclamation Costs					**$162,281**					
IV.	**Settling Basin/Storage Ponds Reclamation**					**E. Radium Pond**	**W. Radium Pond**	**Total**			
	A.	Soil Sampling and Monitoring									
			Number of Soil Samples			173	174				
			$/Sample			$164	$164				
		Subtotal Soil Sampling and Monitoring Costs				$28,419	$28,583	$57,002			
	B.	Contaminated Soil Removal and Disposal (Liner removed in 2003)									
			Thickness of subsoil (ft)			1	1				
			Volume of Contaiminated soil, (ft^3)			3000	0				
			Width of Pond (ft)			85	85				
			Length of Pond (ft)			140	140				
			Surface area of pond (ft^2)			11900	11900				
		1.	Removal and Loading								
			Volume of contaminated soil (cy)			111	0				
			Contaminated soil Removal and Loading Unit Cost ($/cy)			$3.91	$3.91				
		Subtotal Subsoil Removal and Loading Costs				$435	$0	$435			
		2.	Transportation and Disposal. 11e.(2) facility								
			Volume of soil for Disposal(yd^3)			111	0				

Miscellaneous Reclamation									
		Transportation and Disposal Unit Cost ($/yd^3)		$281.82	$281.82				
		Subtotal Subsoil Transportation and Disposal Costs		$31,313	$0				
		Subtotal Subsoil Removal and Disposal Costs		$31,748	$0	$31,748			
	C.	Grade and Contour							
		Volume of Embankment Materials (cy)		6400	6400				
		Average Grade (%)		0	0				
		Distance (ft)		50	50				
		Material Moving Cost per WDEQ Guideline No. 12, App E ($/cy)		0.126	0.126				
		Subtotal Grade and Contour Costs		806.4	806.4	$1,613			
	D.	Soil Amendment							
		Area of surface disturbance (ft^2)		99000	99000				
		Area of surface disturbance (acres)		2.3	2.3				
		Hay Mulch Crimped and Soil Amendment		540.38	540.38				
		Subtotal soil amendment Application Costs		$1,228	$1,228	$2,456			
	E.	Discing/Seeding							
		Area of surface disturbance (acres)		2.3	2.3				
		Discing/Seeding Unit Cost ($/acre)		$606	$606				
		Subtotal Discing/Seeding Costs		$1,376	$1,376	$2,752			
	F.	Remediation verification testing		$20,000	$20,000	$40,000			
	Subtotal Reclamation Costs			$84,013	$51,994	$136,006			
	Total Settling Basin/Ponds Reclamation Costs			**$136,006**					
V.	**Purge Storage Reservoir Reclamation**			**PSR-1**	**PSR-2**				
	A.	Soil Sampling and Monitoring							
		Number of Soil Samples		10	10				
		$/Sample		$337	$337				
		Subtotal Soil Sampling and Monitoring Costs		$3,370	$3,370				
	B.	Leachate Collection System Removal Costs		$5,000	$0				
	C.	Topsoil/Subsoil Application							
		Assumptions:							
		Average haul distance (ft)		1000	150				
		Surface grade (%)		0	0				
		Volume of Topsoil/Subsoil (cy)		83000	74000				
		Movement of TopsoilUnit Cost per WDEQ Guideline No.12, App.C ($/cy)		$1.02	$1.02				
		Subtotal Topsoil/Subsoil Application Costs per Reservoir		$84,494	$75,332				
	D.	Discing/Seeding							
		Surface Area (acres)		6	32				
		Discing/Seeding Unit Cost ($/acre)		$606	$606				
		Subtotal Discing/Seeding Costs		$3,638	$19,404				
	Subtotal Reclamation Costs per Reservoir			$96,502	$98,106				
	Total Purge Storage Reservoir Reclamation Costs			**$194,608**					
VI.A	**Irrigation Maintenance and Monitoring Costs**			**Irrigator No.1**	**Irrigator No.2**				
	A.	Irrigation Maintenance and Repair							
		Irrigation Operation Months/Year		0	6				
		Cost per Month		$667	$1,940				
		Total Number of Years		0	10				
		Subtotal Maintenance and Repair Costs		$0	$116,395				
	B.	Irrigation Monitoring and Sampling							
		# of Irrigation Fluid Samples/Year		0	6				

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Miscellaneous Reclamation										
		Cost/sample (Energy Labs - Casper Wyoming)		$337	$337					
		# of Vegetation Samples/Year		5	5					
		Cost/sample (Energy Labs - Casper Wyoming)		$337	$337					
		# of Soil Samples/Year		30	34					
		Cost/sample (Energy Labs - Casper Wyoming)		$337	$337					
		# of Soil Water Samples/Year		0	2					
		Cost/sample (Energy Labs - Casper Wyoming)		$337	$337					
		Total Number of Years		5	5					
		Subtotal Sampling Costs		$58,975	$79,195					
		Subtotal Maintenance and Monitoring Costs per Irrigator		$58,975	$195,590					
		Total Irrigation Maintenance and Monitoring Costs		**$254,565**						
VI.B	**Irrigation Area Reclamation**			**Irrigator No. 1A**	**Irrigator No. 2**					
	A.	Irrigation Equipment Removal Costs		$2,000	$2,000					
	B.	Plowing								
			Assumptions:							
			Plowing Unit Cost ($/acre)	$100	$100					
			Irrigation Area (acres)	55	106					
			Number of Cultivations	2	2					
			Subtotal Plowing Costs	$11,000	$21,200					
	C.	Discing/Seeding								
			Discing/Seeding Unit Cost ($/acre)	$606	$606					
			Subtotal Discing/Seeding Costs	$33,350	$64,275					
		Subtotal Reclamation Costs per Irrigation Area		$46,350	$87,475					
		Total Irrigation Area Reclamation Costs		**$133,825**						
VII.	**Revegetation of Exxon Reclaimed Lands**									
		Assumptions:								
			10% Reseeding potential areas of erosion ($/acre)	$606						
		Surface Area (acres)		217						
		Total Exxon Reclaimed Lands Revegetation Costs		**$13,158**						
VIII.	**Potential Mitigation Plan For Irrigator No.1A (Requested by WDEQ-LQD)**									
		Assumptions:								
			Harvesting grass for 2 years will further reduce Se levels in vegetation.							
			Harvest grass for 2 years @ $2000/year.	$4,000						
			Analyze Se in grass for 2 years @$165/sample X 4 samples X 2 yrs.	$1,320						
			Analyze Se in soil for 2 years @$174/sample X 28 samples X 2 yrs.	$9,744						
			Add 1 ft. of Se free water to 58 acre irrigation area @ cost of $6000.	$6,000						
			If desired, plow, disk and reseed area with alfalfa @ cost of $4400.	$33,330						
		Total Potential Mitigation Plan Costs- Call $30,000		***$54,394***						
IX.	**Potential Mitigation Plan For Irrigator No.2 (Requested by WDEQ-LQD)**									
		Assumptions:								
			Harvesting grass for 2 years will further reduce Se levels in vegetation.							
			Harvest grass for 2 years @ $4000/year.	$8,000						
			Analyze Se in grass for 2 years @$165/sample X 4 samples X 2 yrs.	$1,320						
			Analyze Se in soil for 2 years @$174/sample X 32 samples X 2 yrs.	$11,136						
			Add 1 ft. of Se free water to 116 acre irrigation area @ cost of $12000.	$12,000						

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Miscellaneous Reclamation		
If desired, plow, disk and reseed area with alfalfa @ cost of $8800.	$64,236	
Total Potential Mitigation Plan Costs- Call $42,000	$96,692	
X. *Potential Mitigation Plan for Shallow Well Casing Leak Investigation*		
Assumptions:		
Investigation and potential mitigation plan as of Feb 2009.		
Assume cost of $2.4M		
Total Preliminary Cost	**$2,400,000**	
XI. Miscellaneous		
A. Fence Removal		
Total Length of Fence (ft)	100,377	
Fence Removal Cost	$0.37	
Subtotal Fence Removal	$37,139	
B. Drill Water Tank Removal (offer to rancher: dispose of timbers)		
Material (cy)	1.48	
4 hours Cat 924G Loader	$175.72	
4 hours truck	$72.30	
4 hours labor (operator)	$131.49	
Disposal costs	$12.01	
Subtotal Drill Water Tank Removal	$392	
C. PSR2 Monitor Wells		
Quantity	6	
Depth	100.00	
Total Depth	600.00	
Cased Hole Abandonment cost	$2.50	
Subtotal PSR2 Monitor Wells Abandonment	$1,500.00	
Total Miscellaneous Structures Reclamation Costs	$39,031	
XII. Infrastructure, Equipment Maintenance, Replacement and Repairs @$62,000/yr for 11 years	$682,000	
Note: 11 years is used to account for active restoration period		
XIII. Purge Storage Reservoirs, 33 acres		
1. Removal and Loading		
Volume, 159718.8 yd2 x 6" deep, (yd3)	26,619.80	
Removal and haulage cost per yd3	$1.19	
Subtotal Purge Storage Reserviors materials removal and loading	$31,677.56	
2. Transportation and Disposal, 11e.(2) facility		
Volume of soil for Disposal(yd³)	26,620	
Transportation and Disposal Unit Cost ($/yd³)	$281.82	
Subtotal Subsoil Transportation and Disposal Costs	$7,501,992.04	
Total Purge Storage Reservoirs Reclaimation	$7,533,669.60	
TOTAL MISCELLANEOUS RECLAMATION COSTS	$11,816,797	
NOTE: Vehicle operation costs are captured in WF REC		

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WELLFIELD ROAD RECLAMATION

Assumptions

1. Gravel road base removed at cost of **$0.85**/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
2. Gravel road base: average depth = 0.25 ft, average width = 10 ft
3. Roads scarified prior to topsoil application at cost of **$53.83**/acre (WDEQ Guideline No. 12, Appendix P)
4. Grading of scarified roads prior to topsoil application at cost of **$58.69**/acre (WDEQ Guideline No. 12, Appendix G)
5. Topsoil applied at cost of **$0.85**/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
6. Stripped topsoil: average depth = 0.67 ft, average width = 25 ft
7. Discing/seeding cost of acre is based on actual contractor costs as listed in the master costs

Gravel Road Base Removal Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.25\ \text{ft}}{} \times \frac{10\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.85}{\text{cy}} = \$\ 79$$

Scarification Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$53.83}{\text{acre}} = \$\ 31$$

Grading Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$58.69}{\text{acre}} = \$\ 34$$

Topsoil Application Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.67\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.85}{\text{cy}} = \$\ 527$$

Discing/Seeding Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$606}{\text{acre}} = \$\ 348$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD **= $ 1,019**

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Groundwater Sweep (GWS) and Deep Disposal Well (DDW) Unit Costs

Assumptions:

1. Wellfield pumps are 5 hp pumping at 25 gpm
2. Cost of electricity = $0.0478 kwh
3. Operator labor costs = $262.97 man-day
4. One 60 hp pump at the plant or satellite feeds two DDWs
5. One 75 hp at each DDW (pumps run on VFDs which reduces operating HP to match pumping rate)
6. Each DDW can take 75 gpm
7. Se Plant Media Cost 3 changes with disposal cost $114,000 per year

Wellfield Pumping Electrical Costs per 1000 Gallons

1000	gal/min		5	hp/pump	1440	Kgal/day	= $	0.12
25	gal/pump		0.746	Kwh/hp	$0.0478	/kwh		
40	pumps		24	hr/day				

Wellfield Pumping Labor Costs per 1000 Gallons

2	Oper.		$526	Labor cost/day		= $	0.37
$263	Cost/oper/day		1,440	kgal/day			

Groundwater Sweep Production Rate

150	gal / min	X	60	min / hr	X	24	hr / day	X	365	day / year	X	1 / 12	year / month	=	*6,570,000*	*gallons / month*

Plant or Satellite to DDW Pumping Electrical Costs per 1000 Gallons

150	gal	216	Kgal/day	$0.0478	$/Kwh		= $	0.238
60	HP	0.746	Kwh/HP	24	Hr/day			

DDW Pumping Costs per 1000 gallons

75	gal	151.2	Kgal/day	$0.0478	$/Kwh		= $	0.425
75	HP	0.746	Kgal?day	24	Hr/day			

TOTAL GWS + DDW INJECTION COSTS PER 1000 GALLONS	= $	**1.15**
TOTAL DDW INJECTION COSTS PER 1000 GALLONS	= $	**0.66**

Selenium Plant - Media Cost

180	gpm	X	1440	min/day	X	356	days/yr	=	92,275,200	gal	=	92275.2	kgal
Se Media Cost per year =						$114,000					=	**$1.24**	**kgal**

Groundwater Reverse Osmosis (RO) and Bioremediation Unit Costs

Assumptions:

1.	Cost of electricity =		$0.0478	KW hr
2.	Operator labor costs =		$262.97	day
3.	RO System Horsepower:			
	RO Unit Pump	60 hp		
	Permeate/Injection pump	60 hp		
	Waste pump.	15 hp		
	TOTAL:	135 hp		
4.	Chemical costs:			
	Sodium Sulfide		$0.38	pound
	Methanol =		$2.43	gal
	Antiscalant =		$16.19	gal
5.	Mix Rates			
	Sodium Sulfide	0.0001 pound/gal		
	Methanol (not used)	0.00025 gal/gal		
	Antiscalant	0.00000833 gal/gal		
6.	Based on 40 pumps to produce 1000 gpm - each pump does 25 gpm		1,440	Kgal/day
7.	RO Maintenance Costs		$0.07	per Kgal

Wellfield Pumping Electrical Costs per 1000 Gallons

40	pumps	0.746	Kwh/HP	$0.0478	electric rate		= $	$0.12 per Kgal
5	HP	24	Hrs/Day					

Reverse Osmosis/Bioremediation Electrical Costs per 1000 Gallons

135	HP	0.746	Kwh/HP	$0.0478	electric rate		= $	0.080 per Kgal
		24	Hrs/Day					

Reverse Osmosis/Bioremediation Labor Costs per 1000 Gallons, moved labor to GW Rest page, section VIII

0	Oper.	$0.00	Labor cost/day					
$263	Cost/oper/day	1,440	kgal/day				= $	*0.000* per Kgal

Treatment chemical costs per 1000 Gallons

Antiscalant:								
1000 gal	X	0.000008330 gal antiscalant	X	$16.19			= $	0.135 per Kgal
		1 gal		gal antiscalant				
Methanol (not used)								
1000 gal	X	0.00000 gal methanol	X	$2.43			= $	0.000 per Kgal
		1 gal		gal methanol				
Sodium Sulfide								
1000 gal	X	0.00010 pounds	X	$0.38			= $	0.038 per Kgal
		1 gal		pound sodium sulfide				

Reverse Osmosis Production Rate

1000 gal	X	60 min	X	24 hr	X	365 day	X	1 year	=	*43,800,000*	*gallons*
min		hr		day		year		12 month			*month*

TOTAL RO COSTS PER 1000 GALLONS	**= $**	**0.40**
TOTAL RO WITH CHEMICAL REDUCTANT COST PER 1000 GALLONS	**= $**	**0.44**

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FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)															
Assumptions:															
1	Pulling Unit for 8 hr/day														
2	MIT Unit for 8 hr/day														
3	Labor for operation of pulling unit requires 2 workers														
4	Labor for operation of MIT Unit requires 1 worker														
MIT Costs per Well															
Equipment and Labor:															
	Pulling Unit with Operator														
		8	hours	X	$	82.74	per hour							=$	661.90
	Laborer														
		8	hours	X	$	22.48	per hour							=$	179.80
	MIT Unit with Operator														
		8	hours	X	$	67.22	per hour							=$	537.76
							TOTAL MIT COST PER DAY							=$	1379.00
	Wells Completed					6	per day								
MIT COSTS PER WELL														=$	229.83
MIT COSTS PER DEEP DISPOSAL WELL (2010 Cost)														=$	5907.53

Cameco Resources
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WELL ABANDONMENT Unit Costs													
Wells without pumps													
Assumptions:													
1	Typical 8 hour working day												
2	Average 700 feet per well												
3	Plug four (4) Wells per day		700	ft	X		4	=				2,800	
Cased Well Abandonment Costs												$ per day	**$ per foot**
	Cat 416 Backhoe	8	hours	X	$	116.88	per hour			=	$	935.00	$0.33
	Water Truck	8	hours	X	$	106.25	per hour			=	$	850.00	$0.30
	Hose Reel	8	hours	X	$	62.50	per hour			=	$	500.00	$0.18
	Cementer	8	hours	X	$	32.90	per hour			=	$	800.00	$0.29
Materials per foot of well													
	Cement	0.0857143	sacks/ft	X	$	16.00	per sack			=	$	3,840.00	$1.37
	Bentonite	0.006	sacks/ft	X	$	4.31	per sack			=	$	68.96	$0.02
Total Estimated Cost per Day											$	6,993.96	
Total Estimated Cost per Foot based on Tyler Exploration Quote #502 dated 3-11-11:													**$2.50**
Wells with pumps													
Assumptions:													
1	Typical 8 hour working day												
2	Average 700 feet per well												
3	Plug four (4) Wells per day		700	ft	X		4	=				2,800	
Cased Well Abandonment Costs												$ per day	**$ per foot**
	Cat 416 Backhoe	8	hours	X	$	116.88	per hour			=	$	935.00	$0.33
	Pulling Unit	8	hours	X	$	106.25	per hour			=	$	850.00	$0.30
	Water Truck	8	hours	X	$	106.25	per hour			=	$	850.00	$0.30
	Hose Reel	8	hours	X	$	62.50	per hour			=	$	500.00	$0.18
	Cementer	8	hours	X	$	139.76	per hour			=	$	800.00	$0.29
Materials per foot of well													
	Cement	0.0857143	sacks/ft	X	$	16.00	per sack			=	$	3,840.00	$1.37
	Bentonite	0.006	sacks/ft	X	$	4.31	per sack			=	$	68.96	$0.02
Total Estimated Cost per Day											$	7,843.96	
Total Estimated Cost per Foot based on Tyler Exploration Quote #503 dated 4-29-11:													**$2.80**

REMOVAL OF CONTAMINATED SOIL AROUND WELLS Unit Cost

Assumptions:

1. Use backhoe for 0.25 hr/well to dig
2. Radiation Technician measures extent of contamination for 0.25 hr/well

Assessment/Removal Costs								**Cost per well**
Cat 416 Backhoe								
	0.25	hours	X	$ 25.42	per hour			$6.35
Radiation Technician								
	0.25	hours	X	$ 27.43	per hour			$6.86
Operator								
	0.25		X	$ 32.87	per hour			$8.22
Remove Casing	1	well	X	$ 15.00	per well	=		$15.00
Hole Plug/Cap	1	each	X	$ 7.50	each	=		$7.50
Site Grading & Seeding	2.13	each	X	$ 31.00	per sm site	=		$66.03
Disposal and Transportation Costs								
Contaminated Soil per Well				0.370	cy per well			
Disposal and Transportation				$ 281.82	per cy			$104.27
Total Estimated Cost per Well:								**$214.23**

DELINEATION HOLE ABANDONMENT Unit Costs

Assumptions:

1. Use the cased well abandonment cost as base.
2. Other cost per Guideline 12 appendix L

Hole Abandonment Costs							**Cost per Well**	***Cost per ft (based on 700 ft holes)***
								700
Cased Well Abandonment Cost (per above breakdown)							**1,750.00**	$ 2.500
Hole Plug/Cap	1	each	X	$ 7.50	each	=	7.50	$ 0.011
Site Grading & Seeding	2.13	each	X	$ 31.00	per sm site	=	66.03	$ 0.094
							73.53	
Total Estimated Cost per Well							**1,823.53**	
Total Estimated Cost per Foot:								**$2.61**

Wellfield Building/Clay Liner Removal					
Cost per Well Head Cover					
	Radiation Tech =	27.43	per hour		
	Operator =	32.87	per hour		
	Total Wellhead Covers =	3,024.00			
	HCl 35% Cost =	$ 0.160	per pound		
	Acid Usage Rate =	4.1	pounds per wellhead cover		
	Acid Unit Cost =	$ 0.66	per wellhead cover		
	Total Labor Rate =	$ 66.87	per hour		
	Cleaning Rate	10	wellheads per hour		
	Survey / Decon.	**$ 6.69**	**per wellhead cover**		
Cost per Header House					
	Rad Technician =	27.43	per hour		
	Operator =	32.87	per hour		
	Number of Operators =	2			
	HCl 35% Cost =	$ 0.160	per pound		
	Acid Usage Rate =	20	pounds per header house		
	Acid Unit Cost =	$ 3.20	per header house		
	Total Labor Rate =	$ 578.98	per hour		
	Cleaning Rate	1	header house per day		
	Survey / Decon.	**$ 578.98**	**per header house**		
Clay Liner/Subsoil Removal Cost					
	Operator =	32.87	per hour		
	Trackhoe =	$ 79.68	per hour		
	Loader =	$ 43.93	per hour		
	Loader Size =	1.5	cubic yards		
	Disposal Rate =	40	yards/hour		
	Total Removal	**$ 3.91**	**per cubic yard**		

	ACID WASH							
	Assumptions:							
	10% wash solution is used							
	0.25 gallon of acid wash is used per sq ft. to clean walls.							
	1 gallon of acid wash is used per sq ft. to clean floors.							
	Using the CPP square footages the assumption is as follows							
	Acid Wash (Walls)							
	Labor	2	Men					
	Rate	$22.48	hr.					
	Time	20	8hr. Days					
	Manlift Rental	$49.85	Month					
	CPP Wall Area	26710	square feet					
	Labor and manlift	$0.27	per square foot					
	Acid	$0.16	pound					
	Consumables	$0.05	per square foot					
	Total	$0.48	per square foot					
	Acid Wash (Floors)							
	Labor	2	Workers					
	Rate	$22.48	hr.					
	Time	15	8hr. Days					
	CPP Floor Area	17820	square feet					
	Labor	$0.30	per square foot					
	Acid	$0.16	pound					
	Consumables	$0.05	per square foot					
	Total	$0.51	per square foot					

Electrical Power Consumption and Costs - During Restoration

Description	Operating Horsepower	Voltage	Lighting FT^2	Lighting Watts (1.25 watts/FT^2)	Electric Heat Kw	Electric Air Condioning Kw	Kw/HP	Kwhr/HP hr	Operating Hours/yr	Kwhr/yr	Power Cost $/Kwhr	Electrical Cost/year
Sat 2 1,250 Gallon RO and Support Equip												
RO Feed Pump (cost of power in RO operating cost)	-	480					0.746	0.746	8,760	-	0.04780	$ -
Decar/Re-injection Pump (cost of power in RO operating)	-	480					0.746	0.746	8,760	-	0.04780	$ -
Decarb-Fan	5.0	480					0.746	0.746	8,760	32,675	0.04780	$ 1,561.86
Misc. Equip. (metering pumps, fans, sump pumps)	10.0	480					0.746	0.746	8,760	65,350	0.04780	$ 3,123.71
Air Compressors	7.5	480					0.746	0.746	8,760	49,012	0.04780	$ 2,342.78
Lighting (1.25 watts/sqft)			28,050	1.25					8,760	307,148	0.04780	$ 14,681.65
Sat 2 Electrical Power Cost per Year Total												**$ 21,710.00**
Se Plant 500 Gallon RO and Support Equip.												
PC Booster Pump	40.0	480					0.746	0.746	8,760	261,398	0.04780	$ 12,494.84
RO Feed Pump (cost of power in RO operating cost)		480					0.746	0.746	8,760	-	0.04780	$ -
Decar/Re-injection Pump ((cost of power in RO operating cost)		480					0.746	0.746	8,760	-	0.04780	$ -
Decarb-Compressor	5.0	480					0.746	0.746	8,760	32,675	0.04780	$ 1,561.86
Decarb Booster Pump	10.0	480					0.746	0.746	8,760	65,350	0.04780	$ 3,123.71
Misc. Equip. (metering pumps, fans, sump pumps)	10.0	480					0.746	0.746	8,760	65,350	0.04780	$ 3,123.71
Air Compressors	7.5	480					0.746	0.746	8,760	49,012	0.04780	$ 2,342.78
Lighting (1.25 watts/sqft)			18,640	1.25					8,760	204,108	0.04780	$ 9,756.36
Se Plant 500 Gallon RO and Support Equip. Total												**$ 32,403.27**
DDW Vollman 33-27												
DDW PD Injection Pump (is included in DDW Cost)		480					0.746	0.746	8,760	-	0.04780	$ -
Misc. Equip. (metering pumps, fans, sump pumps)	1.0	480					0.746	0.746	8,760	6,535	0.04780	$ 312.37
Air Compressors	1.0	480					0.746	0.746	8,760	6,535	0.04780	$ 312.37
Heater - electric Kw (includes wellhead)	-	480			12.5				4,320	54,000	0.04780	$ 2,581.20
Lighting (1.25 watts/sqft)			390	1.25					8,760	4,271	0.04780	$ 204.13
DDW Vollman 33-27 Injection Pump Support Equip. Total												**$3,410.07**
DDW SHRUP #9												
DDW PD Injection Pump (is included in DDW Cost)		480					0.746	0.746	8,760	-	0.04780	$ -
Misc. Equip. (metering pumps, fans, sump pumps)	1.0	480					0.746	0.746	8,760	6,535	0.04780	$ 312.37
Air Compressors	1.0	480					0.746	0.746	8,760	6,535	0.04780	$ 312.37
Heater - electric Kw (includes wellhead)	-	480			12.5				4,320	54,000	0.04780	$ 2,581.20
Lighting (1.25 watts/sqft)			392	1.25					8,760	4,292	0.04780	$ 205.18
DDW SRHUP 9 Injection Pump Support Equip. Total												**$3,411.12**
DDW Morton 1-20												
DDW PD Injection Pump (is included in DDW Cost)		480					0.746	0.746	8,760	-	0.04780	$ -
Misc. Equip. (metering pumps, fans, sump pumps)	1.0	480					0.746	0.746	8,760	6,535	0.04780	$ 312.37
Air Compressors	1.0	480					0.746	0.746	8,760	6,535	0.04780	$ 312.37
Heater - electric Kw (includes wellhead)	-	480			12.5				4,320	54,000	0.04780	$ 2,581.20
Lighting (1.25 watts/sqft)			392	1.25					8,760	4,292	0.04780	$ 205.18
Morton 1-20 Injection Pump Support Equip. Total												**$3,411.12**
PSR2 & Irrigator												
Feed Water Pump	40.0	480					0.746	0.746	3,600	107,424	0.04780	$ 5,134.87
Irrigator	50.0	480					0.746	0.746	3,600	134,280	0.04780	$ 6,418.58
Sampler	-	480			0.5				3,600	1,800	0.04780	$ 86.04
PSR2 & Irrigator Total												**$ 11,639.49**
Header House heating, Typical												
Heater - electric Kw (includes wellhead)	-	480			12.5				4,320	54,000	0.04780	$ 2,581.20
Header House heating, Typical Total												**$2,581.20**

Cameco Resources
Highland Uranium Project
Surety Estimate 2011-12

Heating Cost by Building

	Flooring Sq. Feet	Wall Sq. Feet	Number Of Fans	Fan CFM	AIR Exchange BTU/hr (ΔT=40)	Building BTU/hr (ΔT=40, R=20)	Combined BTU/hr	Heating Months	Determine Which Fuel is Used: $$ per Million BTUs (Fuel Specific)	Nat. Gas $$ / yr	Propane $$ / yr
Sat-2 (6x6" Tank Fans)	12,375	12,000	6	1,500	61,772	48,750	110,522	5	$6.00	$3,034	
Se Removal Bldg. (2009/2010)	12,000	12400	1	9,000	370,630	48,800	419,430	5	$6.00	$11,513	

Estimated Ventilation CFM and impact on heating $$/yr does not account for time with building doors left open.

WELLFIELD PIPING REMOVAL Unit Costs

Assumptions:

1. Trenching with Trackhoe at 1000 ft per day
2. Pipeline extraction and backfilling with Trackhoe & loader at 20(1000 feet per day
4. Trackhoe operation requires 1 worker
5. Pipeline extraction requires 2 workers
6. Operating schedule: 8 hrs/day, 5 days/week

Equipment

Trackhoe											
	$ 79.68 / hour	X	8 hours / day		1 day / 1000 ft		=$ 0.64	per foot			
Loader											
	$ 43.93 / hour	X	8 hours / day	X	1 day / 1000 ft		=$ 0.35	per foot			
Pickup											
	$ 18.08 / hour	X	8 hours / day	X	1 day / 1000 ft		=$ 0.14	per foot			

Labor

Trackhoe Operation											
	$ 32.87 / man hr	X	8 man hrs / 1 day	X	1 days / 1000 ft		=$ 0.26	per foot			
Loader Operation											
	$ 32.87 / man hr	X	8 man hrs / 1 day	X	1 day / 1000 ft		=$ 0.26	per foot			
Pipeline Extraction Laborer											
	$ 22.48 / man hr	X	8 man hrs / 1 day	X	1 day / 1000 ft		=$ 0.18	per foot			

MAIN PIPELINE REMOVAL COST =$ **1.830** per foot

Chipped Pipe Volume Calculations

Pipe Diam Inches	SDR	OD	ID	Wall Thickness	Area of Plastic in Crossection (ft^2)	Volume of Plastic per Linear Foot (ft^3)
1.5	11	1.900	1.534	0.183	0.0069	0.0069
2	11	2.375	1.917	0.229	0.0107	0.0107
3	11	3.500	2.825	0.3375	0.0233	0.0233
4	11	4.500	3.633	0.4335	0.0385	0.0385
6	11	6.625	5.348	0.6385	0.0834	0.0834
8	11	8.625	6.963	0.831	0.1413	0.1413
10	11	10.750	8.678	1.036	0.2196	0.2196
12	11	12.750	10.293	1.2285	0.3088	0.3088
14	11	14.000	11.302	1.349	0.3723	0.3723
16	11	16.000	12.916	1.542	0.4864	0.4864
18	11	18.000	14.531	1.7345	0.6155	0.6155

Equipment Costs - based on Cost Reference Guide - Equipment Watch 2010

Gasoline cost/gallon= 2. $ 2.63

Diesel Cost/ gallon = $ 2.68

GEC = ground engaging components 18%

Equipment Description	Hourly Ownership & Overhaul Cost: Ownership: Depr. $	CFC $	O'Head $	Overhaul: Labor $	Parts $	Field Repair & Operating Expenses (no operator labor): Labor $	Parts $	Fuel consum. Gal/hr	Fuel $	Lube $	Tires $	GEC $	Total Operating cost/hr	Total Hourly Cost	Owner's Profit & OH / hr	Cost/hr
Cat 14H Grader - 14' Blade	$ 16.53	$ 7.29	$ 9.16	$ 3.95	$ 8.32	$ 3.29	$ 8.07	7.04	$ 18.87	$ 4.22	$ 5.14	$ 0.64	$ 40.23	$ 85.48	$ 15.39	**$ 100.86**
Bobcat S250 Skid Steer Loader	$ 1.95	$ 0.64	$ 0.78	$ 1.75	$ 1.31	$ 1.42	$ 0.93	2.78	$ 7.44	$ 0.84	$ 0.85	$ 0.08	$ 11.56	$ 17.99	$ 3.24	**$ 21.23**
Backhoe 416E Extendable Boom	$ 3.85	$ 1.51	$ 1.30	$ 1.21	$ 0.92	$ 1.23	$ 1.14	2.88	$ 7.71	$ 1.57	$ 0.95	$ 0.15	$ 12.75	$ 21.54	$ 3.88	**$ 25.42**
Cat 924H 4-WD Wheel Loader	$ 8.05	$ 2.76	$ 2.63	$ 2.30	$ 1.85	$ 2.85	$ 1.80	4.12	$ 11.05	$ 1.87	$ 1.83	$ 0.24	$ 19.64	$ 37.23	$ 6.70	**$ 43.93**
Cat 615C Elevating Scarper	$ 17.88	$ 7.79	$ 7.88	$ 7.89	$ 14.79	$ 12.27	$ 13.31	10.07	$ 26.98	$ 5.18	$ 3.33	$ 1.14	$ 62.21	$ 118.44	$ 21.32	**$ 139.76**
Cat D8R Dozer - Semi U Blade	$ 21.97	$ 7.90	$ 7.53	$ 7.89	$ 14.36	$ 8.77	$ 13.86	11.36	$ 30.44	$ 5.41	$ -	$ 2.01	$ 60.49	$ 120.14	$ 21.63	**$ 141.77**
Cat 320C L Trackhoe	$ 16.31	$ 5.02	$ 3.64	$ 5.70	$ 5.60	$ 5.70	$ 5.60	5.80	$ 15.53	$ 3.52	$ -	$ 0.90	$ 31.25	$ 67.52	$ 12.15	**$ 79.68**
Concrete Jaws Labounty - CP-60	$ 1.57	$ 0.47	$ 0.47	$ 0.81	$ 0.39	$ 7.30	$ 1.95	-	$ -	$ 0.21	$ -	$ -	$ 9.46	$ 13.17	$ 2.37	**$ 15.54**
Grove RT700E 50 ton RT Crane	$ 20.62	$ 6.85	$ 8.83	$ 6.07	$ 9.81	$ 5.85	$ 13.79	11.54	$ 30.93	$ 6.22	$ 5.70	$ -	$ 62.49	$ 114.67	$ 20.64	**$ 135.31**
Vermeer 1230 Chipper	$ 2.19	$ 0.40	$ 0.60	$ 1.21	$ 1.38	$ 0.99	$ 1.02	2.92	$ 7.82	$ 0.83	$ 0.26	$ 0.69	$ 11.61	$ 17.39	$ 3.13	**$ 20.52**
JLG 600S Manlift - 60 ft (Gas)	$ 11.12	$ 2.18	$ 1.51	$ 5.10	$ 4.52	$ 5.26	$ 1.87	3.11	$ 8.18	$ 1.71	$ 0.80	$ -	$ 17.82	$ 42.25	$ 7.60	**$ 49.85**
Pressure Washer 5 gpm 2200 psi	$ 0.21	$ 0.04	$ 0.03	$ 0.34	$ 0.09	$ 0.52	$ 0.04	0.50	$ 1.32	$ 0.17	$ -	$ -	$ 2.05	$ 2.76	$ 0.50	**$ 3.25**
Pick-up Truck 3/4 ton 4X4	$ 2.66	$ 0.44	$ 0.37	$ 0.59	$ 0.54	$ 0.75	$ 0.52	3.14	$ 8.26	$ 0.79	$ 0.40	$ -	$ 10.72	$ 15.32	$ 2.76	**$ 18.08**
Pulling Unit - Truck 1.75 Ton 4X4	$ 4.06	$ 0.71	$ 0.72	$ 0.66	$ 0.88	$ 0.83	$ 0.85	6.88	$ 18.09	$ 1.66	$ 0.65	$ -	$ 22.08	$ 29.11		
Hoisting Unit - Hydraulic 18000#	$ 4.91	$ 0.90	$ 0.78	$ 1.46	$ 1.32	$ 1.80	$ 1.52	-	$ -	$ 0.46	$ -	$ -	$ 3.78	$ 13.15		
Pulling Unit Total	$ 8.97	$ 1.61	$ 1.50	$ 2.12	$ 2.20	$ 2.63	$ 2.37	6.88	$ 18.09	$ 2.12	$ 0.65	$ -	$ 25.86	$ 42.26	$ 7.61	**$ 49.87**
MIT Truck - 1.75 Ton 4X4 Gas	$ 4.06	$ 0.71	$ 0.72	$ 0.66	$ 0.88	$ 0.83	$ 0.85	6.88	$ 18.09	$ 1.66	$ 0.65	$ -	$ 22.08	$ 29.11	$ 5.24	**$ 34.35**
Mobile Mixer Trailer Mounted - Cementer - Grout mixer pumper	$ 5.86	$ 1.12	$ 1.07	$ 4.16	$ 1.68	$ 5.48	$ 1.85	2.02	$ 5.41	$ 0.85	$ 0.40	$ -	$ 13.99	$ 27.88	$ 5.02	**$ 32.90**
GooseNeck Trailer 3 Axle - fixed	$ 2.85	$ 0.76	$ 0.45	$ 1.42	$ 0.88	$ 1.64	$ 1.22	-	$ -	$ 0.29	$ 2.24	$ -	$ 5.39	$ 11.75	$ 2.12	**$ 13.87**
GEHL DL-8 Rough Terrain Lift Truck	$ 8.35	$ 1.88	$ 1.92	$ 5.06	$ 4.93	$ 5.28	$ 3.31	3.23	$ 8.66	$ 1.61	$ 1.43	$ -	$ 20.29	$ 42.43	$ 7.64	**$ 50.07**

Mine Unit Data

		Mine Unit-A	Mine Unit-B	wells added for restoration no increase in affected volume Mine Unit-C	Mine Unit- C22	Mine Unit-C Haul Drifts	Mine Unit-D	Mine Unit- D Ext	Mine Unit E	Mine Unit F	Mine Unit H	Mine Unit I	Mine Unit J	Mine Unit J Ext
Total number of production wells		0	141	137	0	0	49	13	120	614	136	249	197	0
Total number of injection wells		0	188	313	0	0	102	29	237	948	329	459	387	0
Total number of monitor wells		9	69	104	0	0	38	15	72	109	86	78	82	0
Flare Factor		2.94	2.94	2	2	0	2.5	2.5	2.6	2	2.4	2.5	2.5	2.5
Wellfield Area (ft2)		151,900	690,900	1,067,056	325,000	0	326,750	201,509	971,941	3,775,191	1,222,583	2,293,918	1,148,680	29,600
Wellfield Area (acres)		3.49	15.86	24.50	7.46	0.00	7.50	4.63	22.31	86.67	28.07	52.66	26.37	0.68
Affected Ore Zone Area (ft2)		151,900	690,900	1,067,056	325,000	0	326,750	201,509	971,941	3,775,191	1,222,583	2,293,918	1,148,680	29,600
Avg. Completed Thickness		15.0	15.0	16.0	15.0	0.0	17.0	17.0	16.0	16.0	16.0	20.0	15.0	
Porosity		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Affected Volume (ft3)		6,698,790	30,468,690	34,145,792	9,750,000	0	13,886,875	8,564,133	40,432,746	120,806,112	46,947,187	114,695,900	43,075,500	0
Kgallons per Pore Volume		13,529	61,535	68,961	19,691	0	28,046	17,296	81,658	243,980	94,815	231,640	86,995	0
Number of Patterns in Unit(s)									previous. af	3431990		1146959		
Number of Wells in Unit(s)														
Production Wells					Wells included in MU-C									
	Current	0	141	137	0	0	49	13	120	614	136	249	197	0
	Total Estimated	0	141	137	0	0	49	13	120	614	136	249	197	0
Injection Wells														
	Current	0	188	313	0	0	102	29	237	948	329	459	387	0
	Total Estimated	0	188	313	0	0	102	29	237	948	329	459	387	0
Monitor and Restoration Wells														
	Current	9	69	104	0	0	38	15	72	109	86	78	82	0
	Total Estimated	9	69	104	0	0	38	15	72	109	86	78	82	0
Number of Wells per Wellfield		9	398	554	0	0	189	57	429	1671	551	786	666	0
Total Number of Wells		5310												
Average Well Depth (ft)		500	450	550	550	550	600	600	550	650	500	650	540	540
Average Diameter of Casing (inches)		5	5	5	5	5	5	5	5	5	5	5	5	5
Delineation Holes Estimated Next Report Period		0	0	0	0	0	0	0	0	0	0	0	0	0
Length of Fencing (ft)		0	0	18694	0	0	14060	0	18426	29540	9640	0	9977	9977
Number of Deep Disposal Wells	3													

Electrical Costs			
		2008 Actual	
Power cost		$0.0478	kwHr
Kilowatt to Horsepower		0.746	Kw/HP
Horsepower per gallon per minute		0.167	HP/gpm

Labor Rates			
Latest Available, Wyoming, Mountain States Employers Council, July, 2009		Inc 45% benefits (i.e., overhead)	
Environmental Manager/RSO	$45.43	$65.87	hour
Restoration Manager/Hydrologist	$32.21	$46.70	hour
Operator	$22.67	$32.87	hour
Laborer	$15.50	$22.48	hour
Engineer	$32.21	$46.70	hour
Radiation/Environmental Engineering Technician	$18.92	$27.43	hour
2,080 working hours in a year	176	hours per month	

Chemical Costs		
	2010 Actual	
Antiscalant for RO	$16.19	gal
Sodium Sulfide	$0.38	pound
Methanol	$2.43	gal
Cement	$5.94	sack
Bentonite Tubes	$2.90	tube
Ptug Gel	$7.30	sack
Well Cap - per guideline 12	$7.50	each
Hydrochloric Acid	$0.16	pound

Analytical Costs		
	2010 Actual	
Modified Guideline 8 (contract lab adjusted for current contract cost)	$337.00	analysis
16 parameter (contract lab) Est Rate (CPI)	$100.00	analysis
Other (radon, bio, etc.) Est Rate (CPI)	$1,000.00	month

Cost to Refurbish Mine Units	$/ea
Cost to refurbish Well	$14,000
Cost to refurbish Bell Hole	$8,886
Cost to refurbish Header House	$32,000

Equipment Costs

Equipment	*Base Rental*	*Labor Costs*	*Total $/hr*
Cat 924G Loader - 2.25 cu yd bucket	$43.93	N/A	$43.93
Cat 416 Backhoe	$25.42	N/A	$25.42
Shredder	$20.52	N/A	$20.52
Cat D8N Bulldozer	$141.77	N/A	$141.77
Pulling Unit with Operator	$49.87	$32.87	$82.74
MIT Unit with Operator	$34.35	$32.87	$67.22
GEHL DL-8 Rough Terrain Lift Truck	$50.07	N/A	$50.07
Drill Rig (workover, repair, P&A) with all labor, water truck	$200.00	inc	$200.00
Goose Neck Trailer	$13.87	N/A	$13.87
Manlift	$49.85	N/A	$49.85
Cementer	$32.90	N/A	$32.90
Crane with operator	$135.31	$32.87	$168.18
Cat 320C L Trackhoe - 1.5 cu yd bucket	$79.68	N/A	$79.68
Concrete Jaws Labounty - CP-60	$15.54	N/A	$15.54
Pick-up Truck 3/4 ton 4X4	$18.08	N/A	$18.08
Hose Reel	*$62.50*	*N/A*	*$62.50*
Bobcat S250 Skid Steer Loader	$21.23	N/A	$21.23
Cat 14H Grader - 14' Blade	$100.86	N/A	$100.86
Cat 615C Elevating Scraper	$139.76	N/A	$139.76

Basis:
Drill rig based on current 2010 contracts
Equipment rates based on Cost Reference Guide - Equipment Watch 2010 updated addition - see UC - Equip Cost Tab

Waste Disposal Costs

Waste Form	*Fee**		*Load Correction Factor (Tons/Yd3)*	*Fee per Cubic Yard*	*Transport Cost***		*Total Transportation and Disposal Cost*	
Soil, Concrete, Bulk Byproduct Material - 11E2	$141.20	per Ton	1.1	$155.32	$126.50	per Yd3 **	$281.82	per Yd3
							$10.44	per ft3
Unpackaged Bulk Byproduct Material (e.g., pipe) - 11E2	$165.22	per Ton	0.42	$69.39	$94.11	per Yd3 ***	$163.50	per Yd3
							$6.06	per ft3
Solid Waste (county landfill)	$0.00827	per Lb			Incl.	per Lb	$0.00827	per Lb
Solid Waste (county landfill)	$133.75	per Load			Incl.	per Load	$133.75	per Load
			0.42				$0.66	per ft3
Void Factor (for disposal)	1.25							

* Fee includes all misc taxes and other surcharges. Based on Denison Mines Invoice rec. 4/25/11
** Transport costs based on invoice from Greenfield logistics rec'd 4/14/11, all-in rate is $224.07/m
*** Transport costs based on rates from equipment watch last qtr 2009; no actual cost available at this time. $75/hr * 25.3 to dump site / 15cy load

County landfill charges 3yd = $113.58, 6yd = $172.10 plus surcharge

Load Correction Factors - difference between solid material and when it is broken because of air space between the pieces of material, the coarser the material the lower the load factor (or the finer the material the higher the factor). The table below shows some examples of load factors for several common materials, including concrete. These factors are from the Caterpillar Performance Handbook and the Engineering Pocket Reference Guide.

Material	Pounds/CY Solid (bank)	Pounds/CY Broken (Loose)	% Dif	Load Factor	Conv. To CY
Granite	4536	2781	39%	0.61	1.631068
Limestone	4401	2619	40%	0.60	1.680412
Sandstone	3915	2538	35%	0.65	1.542553
Concrete	3996	2176	46%	0.54	1.836397
Sand & gravel	2700	2400	11%	0.89	1.125

Guideline No. 12 Unit Costs (includes profit)

App K, Cost Estimates for Demolition and Removal of Railroad Spurs and Facilities Buildings

Task	*Cost per unit*	*Regional Cost Adjustment*	*Adjusted Cost per Unit*
Mixture of Types	$0.26 ft3	0.957	$0.249 ft3
Explosive Demolition, Concrete or Steel	0.24 ft3	0.957	$0.230 ft3
Disposal (Average)	$ 4.8 cy	0.957	$8.115 cy
City Landfill Dump Charges	$100.00 ton	0.957	$95.700 ton
Concrete Footings and Foundations			
6" Thick with Rebar	5.28 ft2	0.957	$5.053 ft2
Footings - 2' Thick, 3' Wide	18.95 lin. ft.	0.957	$18.135 lin. ft.
Concrete Disposal Off-Site	$ 4.8 cy	0.957	$8.115 cy

App C, Calculations for Moving Materials with a Caterpillar 637G Push-Pull Scraper Fleet — Operating Cost per bank (in situ) cubic yards

One-Way Distance 500 feet, 0% grade	$0.852	$0.852 bcy
One-Way Distance 1,000 feet, 0% grade	$1.018	$1.018 bcy
One-Way Distance 2,000 feet, 0% grade	$1.319	$1.319 bcy
One-Way Distance 6,500 feet, 5% grade	$3.566	$3.566 bcy

App E, Calculations for Moving Material with a Caterpillar D9R Dozer — Operating Cost per linear cubic yard

Distance 50 feet	$0.126	$0.126 lcy

App H, Cost Estimates for Handling Wire Fencing and Electrical Power Lines

Fencing Removal	$0.37	$0.37 linear foot

App I, Cost Estimate for Ripping Asphalt Using a Caterpillar D9R Dozer — Operating Cost

	$664.28	$664.28 per acre

App H, Cost Estimate for Ripping Overburden Using a Caterpillar D10R Dozer — Operating Costs

0.27 acre/hour	$243.73	$243.73 per hour
		$902.70 per acre

Seeding Unit Costs

	2010 Actual
Discing / Seeding/Topsoil Costs	
Seed cost	$65.99 per acre
Hay Mulch Crimped and Soil Amendment	$540 per acre
Seed and Mulch	$606 per acre
Depth of Topsoil	0.5 feet

Appendix D

TABLE 4

WATER SAMPLING DATA
ENVIRONMENTAL MONITORING SITES
3rd & 4th QUARTERS 2010

SAMPLE LOCATION	SAMPLE DATE	RADIONUCLIDE	CONCENTRATION (mg/L)	CONCENTRATION (pCi/L)	ERROR EST. +/- (pCi/L)	CONCENTRATION (µCi/ml)	10 CFR 20 App. B, Table 2 Values (µCi/ml)	% EFF. CONC. LIMIT
SW-1 Stock Pond Section 3 T35N, R74W	3rd Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
SW-2 Stock Pond Section 2 T35N, R74W	3rd Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
SW-3 Stock Pond Section 35 T36N, R74W	3rd Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
SW-4 Stock Pond Section 36 T36N, R74W	3rd Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
SW-5 Stock Pond Section 21 T36N, R73W	3rd Quarter	U-Nat	0.0074			5.0E-09	3.0E-07	1.7
		Ra-226		1.30	0.29	1.3E-09	6.0E-08	2.2
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
SW-6 Stock Pond Section 22 T36N, R73W	3rd Quarter	U-Nat	0.0006			4.1E-10	3.0E-07	0.1
		Ra-226		0.07	0.15	7.0E-10	6.0E-08	1.2
	4th Quarter	U-Nat	FROZEN				3.0E-07	
		Ra-226					6.0E-08	

TABLE 4

WATER SAMPLING DATA
ENVIRONMENTAL MONITORING SITES
3rd & 4th QUARTERS 2010

SAMPLE LOCATION	SAMPLE DATE	RADIONUCLIDE	CONCENTRATION (mg/L)	CONCENTRATION (pCi/L)	ERROR EST. +/- (pCi/L)	CONCENTRATION (µCi/ml)	10 CFR 20 App. B, Table 2 Values (µCi/ml)	% EFF. CONC. LIMIT
SW-7 Stock Pond Section 22 T36N, R73W	3rd Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
SW-8 Stock Pond Section 18 T36N, R72W	3rd Quarter	U-Nat	0.0039			2.6E-09	3.0E-07	0.9
		Ra-226		0.61	0.24	6.1E-10	6.0E-08	1.0
	4th Quarter	U-Nat	FROZEN				3.0E-07	
		Ra-226					6.0E-08	
SW-9 Stock Pond Section 18 T36N, R72W	3rd Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
SW-10 Stock Pond Section 19 T36N, R72W	3rd Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	DRY				3.0E-07	
		Ra-226					6.0E-08	
GW-1 Windmill Section 1 T35N, R74W	3rd Quarter	U-Nat	0.029			2.0E-08	3.0E-07	6.5
		Ra-226		4.20	0.44	4.2E-09	6.0E-08	7.0
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-2 Water Well Section 35 T36N, R74W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	

TABLE 4

WATER SAMPLING DATA
ENVIRONMENTAL MONITORING SITES
3rd & 4th QUARTERS 2010

SAMPLE LOCATION	SAMPLE DATE	RADIONUCLIDE	CONCENTRATION (mg/L)	CONCENTRATION (pCi/L)	ERROR EST. +/- (pCi/L)	CONCENTRATION (µCi/ml)	10 CFR 20 App. B, Table 2 Values (µCi/ml)	% EFF. CONC. LIMIT
GW-3 Windmill Section 27 T36N, R74W	3rd Quarter	U-Nat	0.147			1.0E-07	3.0E-07	33.2
		Ra-226		1.80	0.31	1.8E-09	6.0E-08	3.0
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-4 Windmill Section 23 T36N, R74W	3rd Quarter	U-Nat	0.0728			4.9E-08	3.0E-07	16.4
		Ra-226		0.45	0.19	4.5E-10	6.0E-08	0.8
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-5 Windmill Section 30 T36N, R73W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-6 Windmill Section 28 T36N, R73W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-8 Windmill Section 23 T36N, R73W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-9 Windmill Section 14 T36N, R73W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	

TABLE 4

WATER SAMPLING DATA
ENVIRONMENTAL MONITORING SITES
3rd & 4th QUARTERS 2010

SAMPLE LOCATION	SAMPLE DATE	RADIONUCLIDE	CONCENTRATION (mg/L)	CONCENTRATION (pCi/L)	ERROR EST. +/- (pCi/L)	CONCENTRATION (µCi/ml)	10 CFR 20 App. B, Table 2 Values (µCi/ml)	% EFF. CONC. LIMIT
GW-10	3rd Quarter	U-Nat	0.0056			3.8E-09	3.0E-07	1.3
Water Well		Ra-226		0.34	0.17	3.4E-10	6.0E-08	0.6
Section 14								
T36N, R73W	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-11	3rd Quarter	U-Nat	0.0008			5.4E-10	3.0E-07	0.2
Water Well		Ra-226		0.41	0.20	4.1E-10	6.0E-08	0.7
Section 11								
T36N, R73W	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-12	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
Water Well		Ra-226					6.0E-08	
Section 7								
T36N, R72W	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-13	3rd Quarter	U-Nat	0.016			1.1E-08	3.0E-07	3.6
Water Well		Ra-226		1.80	0.32	1.8E-09	6.0E-08	3.0
Section 9								
T36N, R72W	4th Quarter	U-Nat	0.0053			3.6E-09	3.0E-07	1.2
		Ra-226		0.77	0.19	7.7E-10	6.0E-08	1.3
GW-14	3rd Quarter	U-Nat	0.0019			1.3E-09	3.0E-07	0.4
Water Well		Ra-226		0.37	0.23	3.7E-10	6.0E-08	0.6
Section 10								
T36N, R72W	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-15	3rd Quarter	U-Nat	0.0206			1.4E-08	3.0E-07	4.6
Water Well		Ra-226		0.29		2.9E-10	6.0E-08	0.5
Section 15								
T36N, R72W	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	

TABLE 4

WATER SAMPLING DATA
ENVIRONMENTAL MONITORING SITES
3rd & 4th QUARTERS 2010

SAMPLE LOCATION	SAMPLE DATE	RADIONUCLIDE	CONCENTRATION (mg/L)	CONCENTRATION (pCi/L)	ERROR EST. +/- (pCi/L)	CONCENTRATION (µCi/ml)	10 CFR 20 App. B, Table 2 Values (µCi/ml)	% EFF. CONC. LIMIT
GW-16 Water Well Section 11 T36N, R72W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-17 Water Well Section 8 T36N, R72W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-18 Water Well Section 2 T36N, R72W	3rd Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
	4th Quarter	U-Nat	NOT RUNNING				3.0E-07	
		Ra-226					6.0E-08	
GW-20 Water Well Section 27 T36N, R73W	3rd Quarter	U-Nat	<.001				3.0E-07	
		Ra-226		0.26	0.17	2.6E-10	6.0E-08	0.4
	4th Quarter	U-Nat	<.001				3.0E-07	
		Ra-226		0.2	0.13	2E-10	6.0E-08	0.3

Plates

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D-12

DM-19

DM-18

DM-1

DM-2

3673-22-1

3673-23-1

T-36N

R-73W

PAVED ROAD

GRAVEL ROAD

TWO TRACK

WELL FIELD MONITOR RING

WELL FIELD MONITOR RING

WELL FIELD MONITOR WELL

DELINEATION HOLE LOCATION

SCALE IN FEET

0 50 100 200

N

PLATE 3-2(HUP)

REVISIONS		
NO.	DATE	BY
0	06/16/11	NRH

CAMECO

Cameco Resources
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SMITH RANCH - HIGHLAND
603 PERMIT ABANDON DRILL HOLE
MAP - 2010/2011 ANNUAL REPORT

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