# REMEDIAL ACTION COMPLETION REPORT
# PHASE II REMEDIAL ACTION CONSTRUCTION ACTIVITIES
# CENTRAL FARMERS FERTILIZER FACILITY
# IN GEORGETOWN CANYON, IDAHO
# for NU-WEST MINING, INC and
# NU-WEST INDUSTRIES, INC.

October 27, 2011
Prepared by:

GLOBAL ENVIRONMENTAL TECHNOLOGIES L.L.C.

SALT LAKE CITY, UTAH

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**3010 Conda Road**
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Mitchell Hart, P.E.
Manager, Mining Projects and Remediation

October 31, 2011

Mark Jeffers, P.G.
Idaho Department of Environmental Quality
1410 North Hilton
Boise, Idaho 83706

Sent Via E-Mail

Reference: Final Remedial Action Completion Report - Phase II Remedial Action Construction Activities, Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho dated October 27, 2011

Dear Mark:

Nu-West Industries, Inc. is pleased to submit the Final Remedial Action Completion Report for the Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho. This submission is required by the Consent Judgment, Part V section 13.E.2. Site remedial work completed during 2010 was carried out in accordance with the IDEQ Phase II RAP approval of March 10, 2010 and the approved specifications and engineered drawings provided by Norwest Corporation on February 18, 2010. The Final Remedial Action Completion Report incorporates agreed-upon changes resulting from IDEQ comments provided on March 30, 2011 to the completion report and to the O&M Plan, as well as the additional amendments requested via email from Mark Jeffers of IDEQ on September 20, 2011.

This final report provides stamped as-built final construction drawings of the site remedial actions and remedy certification. The report details Phase II remedial site construction and provides the supporting documentation as required by the Consent Judgment. This document includes the site O&M plan and a 30-year cost estimates to maintain the remedy by site facility as requested by IDEQ in our meeting at the site on July 20, 2010. The entire report is also provided on CD for your reference.

With the completion of Phase II construction and concurrence with the elements of the Completion Report by Idaho DEQ, Nu-West will proceed to put in-place the necessary bonding requirements.

Going forward, Nu-West will focus on monitoring and maintenance of site remedial actions, such as those corrective action/maintenance items at the site identified in our correspondence dated August 05, 2011 that were successfully completed on August 25th.

If you have any questions regarding our responses, please contact me at 208-547-3935, x13 or on my cell phone (303) 883-1184.

Sincerely,

**Nu-West Industries, Inc.**

Mitchell J Hart, P.E.
Manager, Mining Projects and Remediation

cc:

Doug Tanner - IDEQ
JB Brown, P.G. – GET
Dean Miller – DGS Law
James Williams – Nu-West
Tracy Sizemore - Agrium
Cindy Emmons - Norwest
Kevin Ritter / Paul Kos, P.E. - Norwest

GLOBAL ENVIRONMENTAL TECHNOLOGIES L.L.C.

October 31, 2011
Nu-West
3010 Conda Road
Soda Springs, Idaho 83276
Attn: Mr. Mitchell J. Hart, P.E.

**RE: TRANSMITTAL: FINAL REMEDIAL ACTION COMPLETION REPORT - PHASE II REMEDIAL ACTION CONSTRUCTION ACTIVITIES CENTRAL FARMERS FERTILIZER FACILITY IN GEORGETOWN CANYON, IDAHO NU-WEST MINING, INC and NU-WEST INDUSTRIES, INC.**

Dear Mitch:

Please find transmitted the Final Remedial Action Completion Report for the Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho. This report addresses the requirements of the Consent Judgment, Part V section 13.E.2. This Final Remedial Action Completion Report incorporates agreed-upon changes resulting from IDEQ comments provided on March 30, 2011 to the completion report and to the O&M Plan, as well as the additional amendments requested via email from Mark Jeffers of IDEQ on September 20, 2011.

This final report provides stamped as-built final construction drawings of the site remedial actions and remedy certification. The report details Phase II remedial site construction and provides the supporting documentation as required by the Consent Judgment. This document includes the site O&M plan and a 30-year cost estimates to maintain the remedy by site facility as requested by IDEQ in our meeting at the site on July 20, 2010. The entire report is also provided on CD for your reference.

Completed work during 2010 was carried out in accordance with written approvals from the Idaho Department of Environmental Quality for the Phase II Construction Specifications and the engineered drawings provided by Norwest Corporation in February 2010 and for investigations and treatment actions completed during the construction. Appendices to the report include: 1) photographic and daily documentation of the work, 2) documentation of QA/QC activities, 3) the results of analyses and testing during the remedial construction, 4) monitoring results, 5) a summary of investigation conducted during the RAP with detailed surveyed maps of those investigations; 6) monitoring results after the completion of the construction, and; 7) site operation, maintenance and monitoring plan for the remedy to ensure long-term success.

0o0

We sincerely appreciate the opportunity to work with you on this project. If you have any questions regarding this transmittal, please contact us.

Very truly yours,
**Global Environmental Technologies, LLC**

John S. Brown, P.G. Principal/Owner
Enclosures – 6 hard report copies, 6 disk copies

# REMEDIAL ACTION COMPLETION REPORT PHASE II REMEDIAL ACTION CONSTRUCTION ACTIVITIES CENTRAL FARMERS FERTILIZER FACILITY IN GEORGETOWN CANYON, IDAHO for NU-WEST MINING, INC and NU-WEST INDUSTRIES, INC.

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# 1.0 INTRODUCTION

## 1.1 General

This Phase II Remedial Action Completion Report (RACR) formally documents the conclusion of remedial construction and cleanup objectives and presents the long-term maintenance and monitoring plan for the Central Farmers Fertilizer site located in Georgetown Canyon, Idaho. Remedial actions and remedial construction for the site was conducted to achieve short term and long term goals that were specified in the approved Draft Final Remedial Action Plan (RAP) (GET, 2009). Completed work was carried out in accordance with the Idaho Department of Environmental Quality (IDEQ) approvals of the Phase II Draft Final Design Plans and Specifications (IDEQ, March 10, 2010 and the engineered issue for bid (IFB) and issue for construction (IFC) drawings that accompanied the Phase II Design Plans and Specifications (Norwest, February 2010).

Phase II of the site remedial construction included the construction of a 2,600 foot stream segment through the site and connecting the site side drainages to the constructed channel. Engineering design of the 60-inch corrugated metal pipe (CMP) bypass channel was based on stream characteristic data collected from Georgetown Creek flow through the site and channel geometry measurements taken at the site between 2004 and 2009, survey measurements and measurements from topographic maps of the site and flow measurements and calculations reported by USGS. The CMP bypass channel was designed to convey the creek flow in an open channel from upstream of the former CMP inlet and then return the flow to the existing creek bed at the southern exit point of the CMP. The design included a riparian corridor for wildlife habitat and in-stream features, such as rock weirs and pools for fish passage and habitat.

During the summer of 2009, Nu-West Mining, Inc and Nu-West Industries, Inc. (jointly referred to herein as "Nu-West") conducted Phase I remedial construction actions, which included site dewatering via the Tank Spring diversion and under-drain

construction, closure and capping of the slurry pit, furnace, and clarifier, and removal of all but about 9,000 yards of the ore pile in Phosphoria Gulch. Results and details from the Phase I remedial construction are not presented in this document, but are contained in the Phase I Remedial Action Completion Report (GET, January, 2010).

This RACR contains summary information about stream construction and other Phase II activities that were carried out in 2010, summary information on construction quality assurance (CQA), and a certification statement by a professional engineer registered in the state of Idaho. Document submittal and contents of the draft as-built report (RACR) was specified in the Consent Judgment and requested for delivery to the IDEQ following completion of the Phase II remedial actions within 90 days and as requested by the IDEQ. Specifically, this document presents:

- Results of investigations and testing during the Phase II remedial actions;
- Detailed as-built drawings of the completed Phase II work and documentation of ore removed;
- Discussion of activities completed, including deviations from the RAP requirements;
- Detailed sample or materials testing information including location, material types evaluated, analytical methods, Quality Assurance/Quality Control (QA/QC) results, conformance of the construction with CQA performance standards, and sample analytical results obtained;
- Documentation of work, including photographs, logs, and monitoring records; and
- As-Built certification by a professional engineer, registered in the State of Idaho.

The Appendices to this report include:

- Appendix A - This appendix presents selected photographic documentation of Phase II construction between June 10 and October 22, 2010.
- Appendix B - This appendix contains material submittals, material specifications, materials certifications, certificates of analysis, material delivery inspection and inventory checklists.

- Appendix C - This appendix includes compaction testing data summaries and results from the Troxler nuclear density gage that was completed by Harper-Leavitt Engineers at the sediment pond dike, soils laboratory test results and analytical laboratory test results from site investigations during the construction and material tracking volumes on a daily basis.

- Appendix D - This appendix presents the progress charts and reports that were transmitted to the IDEQ during construction and the supervisors daily reports that describe the day by day activities of the Phase II construction between June 18 and October 23, 2010.

- Appendix E - This appendix includes the documented daily air monitoring logs required by the site health and safety plan and the air monitoring results that were obtained from around the slurry pit.

- Appendix F - This appendix includes the results from exploratory test pits along the footprint of the stream channel that were completed during Phase II in order to identify subsurface conditions and to locate the areas where the stream channel would cross the subgrade CMP.

- Appendix G - This appendix presents the site operations, monitoring and maintenance plans for the actions completed for the 2009-2010 remedial action construction. As requested by IDEQ in our meeting on August 24, 2010, a long-term O&M plan for site inspection, monitoring and maintenance would be provided following the completion of the Phase II work.

Ground and surface water results from the sampling events in May and October 2010 are not presented in this document. These results will be compared with previously collected data and will be presented in the annual comprehensive ground and surface water report in late March 2011, along with the results of site monitoring in 2009-2010 following Phase I completion. Semiannual sampling of the site occurred during 2010 in May, prior to remedial construction and in October, immediately prior to activating the newly-constructed channel. Therefore, it is likely that the effects to ground and surface water from the new stream channel will not be completely understood until subsequent monitoring events are completed and evaluated.

## 1.2 Site History

### 1.2.1 Regulatory Background

On September 19, 2001, the IDEQ conducted a site visit to the Georgetown Canyon property. Based on the findings of this site visit and other information provided to the agency, the IDEQ expressed concern that there may have been a potential for a release from the former Central Farmers site to the environment. Potential contamination at the former Central Farmers Fertilizer Facility was alleged in a preliminary assessment completed by the IDEQ on September 19, 2001. This assessment is provided as an attachment to the initial site work plan (GET, 2004).

During the entire period that it was operational, the site was owned and operated by Central Farmers Fertilizer Company. Nu-West Mining, Inc. acquired ownership of the Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho following the bankruptcy of a previous owner, the Beker Industries (Zach Miller, personal communication, August 26, 2011). During 2002, Nu-West Mining and its parent company, Nu-West Industries, Inc. (jointly referred to herein as "Nu-West") and IDEQ negotiated a Consent Judgment pursuant to Idaho Code § 39-101 *et seq*., [Idaho Environmental Protection and Health Act (EPHA)], and Idaho Code § 39-4401 *et seq.,* [Idaho Hazardous Waste Management Act (HWMA)] enforceable under Idaho Code §§ 39-108 and 39-109, and the HWMA, Idaho Code §§ 39-4413 and 39-4414. Judge Harding of the Bear Lake County Court signed the Consent Judgment on May 28, 2003.

### 1.2.2 Historical Site Use

Ore processing operations at the Central Farmers Fertilizer Company plant took place approximately between 1957 and 1964. Figure 1-1 shows the site location. The site is located seven miles to the east of Georgetown in Bear Lake County, Idaho, as shown on Figure 1-1. The site is located within Georgetown Canyon, in the general areas of the NW ¼ Sec. 25 and the SW ¼ Sec. 24, T. 10 S., R. 44 E, in Bear Lake County.

Figure 1-2 shows the locations of where the site features were existing during plant operations and the local geological features. Building structures shown on this figure were removed prior to Phase II construction. Figure 1-3 is an aerial site view that shows many of the site features that were existing in 1965. Plant construction started with an electric furnace and kiln in 1957. The fertilizer plant facility consisted of a beneficiation plant, a 35,000 kW electric arc furnace, phosphoric acid plant, and fertilizer processing plant. A railroad spur was constructed from the main line near Georgetown to the processing facility in 1957. The plant was completed in May 1959.

Central Farmers Fertilizer Company owned the site and mined phosphate ore in Georgetown Canyon during the operation of the fertilizer plant facility. A conveyor belt was used to move ore from the open pit to the processing plant. Open pit mining was initiated in June 1958 to the east of the plant facility. A new open pit was opened in 1960. Open pit mining continued until 1963. In 1964, ore production from the mine was halted. In July 1964, the El Paso Natural Gas Products Company bought the Georgetown Canyon phosphate properties from the Central Farmers Fertilizer Company (Hansen, 1965) and in October 1964, closed the plant facility and moved parts of the plant to Conda, Idaho, in Caribou County where the company was building a new phosphate processing plant (USGS, 2000).

The Georgetown Canyon Mine has not produced phosphate ore since 1964. Approximately 72,000 $yds^3$ of low-grade previously-mined ore from the mine remained stockpiled at the plant site prior to October 2008. About 37,200 yards of ore were removed from the plant site as part of the Phase I remedial action. Approximately 34,500 yards of this ore were removed by a third-party in 2008, 2009 and 2010. By October 2010, the remainder of ore from the mine that was stock-piled in Phosphoria Gulch had been removed. The former Central Farmers facility property, including Georgetown Canyon Mine is currently under the ownership of Nu-West Mining, Inc.

## 1.3 Remedial Action Objectives

The Remedial Action Objectives (RAO), that were implemented during remedial construction at the site were designed to address the following:

*Prevent Consumption of Ground Water* – Consumption of ground water containing contaminants exceeding risk-based concentrations or MCLs will be prevented through implementation of an environmental covenant (EC) for the site, filed with the IDEQ in December 2010. The EC will be recorded with Bear Lake County as a covenant to the property title, and is executed by Nu-West and the IDEQ pursuant to the Uniform Environmental Covenants Act, Idaho Code §§ 55-3001 through 3015. This EC sets forth activity and use limitations on the property that are designed to protect natural resources, human health and the environment.

*Prevent Direct Contact with Ore* – Non-carcinogenic HQs for human health exposure the hypothetical adult and child resident and current adult and child recreational user are driven by vanadium in the ore and soil. Direct exposure to the ore materials were reduced by eliminating the ore pile and the ore in the sediment pond during Phase II construction and encapsulation of ore during remedial construction closures of the clarifier, slurry pit cover and furnace.

*Prevent Direct Contact with Contaminated Sediment* - Direct contact with contaminated sediments in the clarifier were prevented in the Phase I construction by eliminating the clarifier as a source of contaminants that exceeded risk-based concentrations for both human health and ecological risk.

*Prevent Direct Exposure to Elemental Phosphorus* - Direct contact with shallow elemental phosphorous noted in the slurry pit area and in the ore pile were eliminated by construction of the armored caps using a low-permeability geomembrane and additional soil cover and rock armoring and through implementation of an environmental

covenant. Remedial actions at the ore pile and slurry pit following the Phase I construction will prevent future exposures to elemental phosphorus.

*Protect Ground Water* – Prior to remedial activities, shallow site ground water could have been affected through the infiltration of clean site surface water through the vadose zone in areas including the slurry pit and the central part of the site, the former shop UST site, the acid plant and TSP building. Ground water will be protected through capping the slurry pit, diversion of Tank Spring and dewatering the site. These actions will reduce the overall site infiltration through the vadose zone.

*Protect Receptor Guilds* – The risk to potential ecologic receptors was protected through the closure and capping of the clarifier, thereby reducing exposure to cadmium, chromium and zinc in surface water and sediment. Slurry pit capping is also protective and reduces the zinc exposure to sensitive bird and mammal species.

## 1.4 Previous Cleanup Actions

During August 1996, two underground storage tanks (USTs) were removed from the site. In 1997, approximately 1,340 yards of petroleum-contaminated soils were removed from the tank excavation (GET, 2009). During the summer of 2001, Nu-West commenced and completed demolition of the remaining fertilizer plant buildings, tanks, and structures as part of complete site closure. Much of the material was scrapped and recycled. Some of the remaining construction and demolition waste was impounded and covered on site below the calcine bins. A number of concrete foundations remained on site, including those of the TSP storage building, maintenance shop, calcine bins, beneficiation building and kiln scrubber. Some of these foundations were removed in the RAP Phase II stream construction work. The site surface was reclaimed following building removal in 2001 using native soils to cover the facility surface soils and re-vegetated.

Throughout the summer of 2009, Nu-West implemented the approved Phase I remedial actions for the site. The RAP was submitted in May 2009 (GET, 2009) and approved by the IDEQ for Phase I construction on July 7, 2009. Phase I of the site remedial construction included site dewatering, slurry pit closure, furnace closure, clarifier closure, and ore removal, site restoration and capping in Phosphoria Gulch. More specifically, site construction completed for Phase I included:

- Closing and covering the clarifier structure with an impermeable geomembrane cap and soil cover and regrading the surrounding area to improve drainage patterns;
- Removing about 85 percent of the phosphate ore pile from Phosphoria Gulch, thereby eliminating dispersive ore materials from entering into Phosphoria Gulch surface waters;
- Dewatering the site by capturing clean precipitation runoff and spring flows that were discharging onto the site and diverting these surface water flows away from reclaimed site facilities to the creek;
- Closing and covering the furnace in place and providing a positive slope away from the furnace structure;
- Regrading the slurry pit to provide positive drainage away from the structure, and placement of a low permeability geomembrane cap system with soil cover and rock armoring;
- Reclaiming surface areas disturbed by the Phase I remedial actions at the site.

Detailed descriptions of the completed remedial action for Phase I, as-built drawings and CQA results are presented in the Phase I Remedial Action Completion Report (GET, 2010) and are not included in this report. The reader is encouraged to review the Phase I report for details of the Phase I remedial construction.

## 1.5 Phase II Final Design Plans and Specifications

The Phase II Final Design Plans and Specifications were prepared (Norwest Corporation, 2010) to provide construction specifications for the second phase of remedial actions for the site. This document was prepared to supplement the approved

RAP that was submitted on May 11, 2009. The Phase II design for the stream channel construction was developed and approved after approval of the RAP that presented a conceptual design of the stream channel. The stream channel construction was of concern early on in the RAP development (IDEQ, November 2007). IDEQ expressed concern regarding the close proximity of the slurry pit and Georgetown Creek and the potential for flooding of the slurry pit following capping actions. IDEQ also expressed concerns for the uncertainty of the condition of the CMP and risk of failure (IDEQ, January 2008). On January 10, 2008, IDEQ met with Nu-West and discussed these issues, but decided to address the site remediation in Phase I as a separate issue to addressing the CMP. Nu-West agreed to provide IDEQ with hydrological and flood analysis of the CMP and potential impacts to the slurry pit for IDEQ review.

In a subsequent meeting on February 13, 2008, IDEQ agreed to allow Nu-West to leave the culvert in-place as long as Nu-West constructed a secondary water flow conveyance structure in the event of a “100 year flood event”. The secondary structure would consist of a “ground-level, surface-based structure” approximating 12 foot wide bounded by a minimum of 3-foot side berms as per the hydrologic analysis (TRC, 2008) recommendations. IDEQ requested the secondary conveyance structure be: “over-built” to a degree, provide adequate conveyance of a “flood event”, be built “for the long term”, designed with proper discharge and drop structures as needed and allow the USFS to review the design.

On June 16, 2008, IDEQ expressed that removal of the CMP was the best solution for Georgetown Creek. Removal of the pipe would establish a permanent channel which would require little or no future operation and maintenance (O&M) activities. As discussed in the May 27, 2008 meeting, IDEQ could not fully evaluate the impacts of leaving the CMP in place until the location of the culvert and footprint of the slurry pit were verified. Depending on the location of the CMP in relation to the Slurry Pit landfill, IDEQ would not support the RAP if Georgetown Creek was too close to the slurry pit. During a meeting on September 25, 2008, IDEQ, EPA and USFS agreed that Georgetown Creek should be "day lighted" and taken out of the CMP because the

agencies believed this action to be a more long-term or permanent solution when compared to leaving the creek within the CMP. The agencies suggested this could be accomplished by leaving the CMP in-place, capping the CMP and at a point upstream from the inlet of the CMP, Georgetown Creek would be permanently diverted into a constructed diversion channel designed to handle peak flow of the creek and a potential historic flood event.

As a result of agency input, a CMP bypass stream channel for Georgetown Creek was designed to eliminate the dependence on the CMP and to provide a creek segment across the site within a restored stream segment (Norwest, 2010). Important factors in the consideration of the stream alignment across the site included avoiding the triple-super phosphate (TSP) and acid plant foundations and providing stable distances from capped features. Another important factor was the determination of a sufficient channel cross section design to manage both the 100-year storm event without the occurrence of flooding on the site and to control base flows to maintain the channel. The construction of the CMP bypass channel adds certainty that the estimated maximum peak flows will be conveyed safely across the site. A final construction specification document and construction drawings was submitted (Norwest, 2010) that addressed IDEQ comments to an earlier draft of the document.

Additional permits were secured from the Idaho Department of Water Resources (IDWR) permit No. 11-20031 and from the US Army Corps of Engineers (NWW No. 2010-24-102) in March 2010. The Phase II project was authorized by the US Army Corps. of Engineers under the terms and conditions of Nationwide Permit NWP 27 (Aquatic Habitat Restoration, Establishment, and Enhancement Activities) (33 CFR 330, Appendix A). The authorization required that the stream restoration would be constructed as shown on the drawings submitted on February 18, 2010 and in accordance with the nationwide permit and other special conditions contained in the March 10, 2010 correspondence.

## 1.6 Ground and Surface Water Monitoring and Site Environmental Covenant

Monitor wells that were installed as part of the SI have been sampled on a semi-annual basis since July 2004. Data from each sampling event was validated and submitted to IDEQ along with an updated version of the ground water quality database. ACZ Laboratories of Steamboat Springs, Colorado performs analyses of the ground water samples. Global Environmental Technologies performs data validation, prepares the validation reports and database updates, and provides annual comprehensive reviews. The Ground Water Sampling and Analysis Plan (SAP) submitted in April 2004 (GET, 2004) identifies sampling protocols.

Ground and surface water was sampled during the RAP construction. Ground and surface water monitoring will continue semi-annually and an annual ground water analysis of the data will be submitted to IDEQ for a minimum of 5 years following completion of remedial construction. At the time of the five year review by IDEQ, monitoring frequencies may be modified.

The impacted land areas are immediately beneath the former facility, owned by Nu-West. There are no domestic wells in the area because the site is surrounded by National Forest property. In order to prevent the ingestion of ground water that does not meet RBCs, an environmental covenant for the site was submitted to the IDEQ in December 2010. The environmental covenant boundary for the site is shown on Figure 1-5A and Figure 1-5B. The intent of the environmental covenant to be implemented in 2011 will be to ban well drilling and other intrusive work on the site and leave the elements of the remedy undisturbed.

# 2.0 REMEDIAL DESIGN/REMEDIAL CONSTRUCTION EVENTS

## 2.1 Schedule

The timeline detailing Phase II construction and supporting tasks that were required to excavate the channel through the site and perform other tasks included in the Phase II construction is presented on Figure 2-1. Progress reports and schedules detailing construction completion as specified in the Consent Judgment are contained in Appendix D. The following sections describe documents prepared and the chronology of the activities associated with the remedial construction at the site.

## 2.2 Phase II Remedial Construction Components

General activities that took place during stream channel construction are presented on Figure 2-1 and detailed on a daily basis in Appendix D. The work consisted of:

- Establishing a site water source and supply;
- Establishing and maintaining site "best management practices" (BMPs) as required by the site storm water pollution prevention plan (SWPPP);
- Daily monitoring of hydrogen cyanide (HCN) and phosphine (PH3) during excavation work, and HCN and phosphine surveys of the slurry pit cover and adjacent excavation work;
- Grubbing site vegetation along excavation footprint and at spoils piles prior to channel excavation;
- Dewatering the excavations and the sediment pond and removal of ore from the sediment pond;
- Placement of compacted fill to rebuild the sediment pond embankment removed during channel excavation;
- Performing test pit investigations to identify CMP crossing locations within the excavation;
- Removal of former plant security fence;

- Excavating and grading 3-inch minus fill and construction soils, excavating and grading riprap materials and boulders from Dud Hollow colluvium, stockpiling and placement of these materials;

- Pre-stripping of slag overburden and concrete materials prior to and during soils excavation;

- Construction of an on-site covered landfill that included the concrete, rebar and empty pipe materials encountered during the excavation of the channel;

- Excavation of the stream channel across the site and connection with Tank Spring and Syncline Spring (side surface water tributaries);

- Excavation and disposal of the TSP Storage building foundations and tunnels, TSP hopper building foundation, office building foundation and other piping and foundation walls that were encountered during channel excavation;

- Excavation, removal and recycling of approximately 500 feet of 60-inch CMP;

- Off-site transport of 26,500 tons of low-grade phosphate ore (Mitch Hart, August 17, 2010) and clean out and reclamation of Phosphoria Gulch.

- Excavation and testing of soils impacted from petroleum hydrocarbons and soils from below the plant septic drain field;

- Excavation of a septic tank containing small amounts of elemental phosphorus and on-site treatment of the phos waste;

- Construction and implementation of a cofferdam upstream of the work with a gravity feed into an 18-inch pipeline to bypass stream crossing construction and excavation work;

- Implementation of a pumpback system to contain losses and gaining stream inflow between the cofferdam and the CMP inlet;

- Construction of stream channel weir and sill structures, plunge pools, bench construction, and placement of filter gravel and riprap;

- Grouting of the CMP inlet for 50 feet, and grouting the CMP at two crossing locations;

- Grouting closed a conveyor tunnel vault to the TSP building and grouting closed the Tank Spring, sediment pond and Syncline Spring drop inlets;

- Covering slag areas to the north of the slurry pit and to the south of the clarifier cap on Nu-West Property with native soil and excavated spoils from the channel;

- Compacting and grading spoil placement areas, and reclaiming these areas by hydro seeding them;

- Improving roads on the site and improving the USFS road on the USFS easement;

- Regrading the site to promote positive site drainage to existing site drainages, to chute spillways within the channel, or to side tributaries such that drainage was away from site caps and landfills;

- Installation of new culverts and abandonment of old culverts at Syncline Spring, Tank Spring, and sediment pond outlet;

- Reclamation of Dud Hollow borrow area;

- Installation of a security fence with gated entrances on the north and south sides of the former facility;

- Reclamation along the channel that included placement of trees and shrubs along the channel benches and hydro seeding the bench and side slopes;

- Placement of Type 2D erosion control blankets on the channel slopes (2:1) and Type 3B blankets from the benches to the upper predicted bank elevations for the estimated 100-year storm event;

- Reclamation of Phosphoria Gulch ore stockpile area and improving the Phosphoria drainage and rip rap, and;

- Reclaiming surface areas disturbed by the remedial actions at the site.

Several media investigations were also completed during Phase II construction, including investigation of the soils from below the septic tank drain field and investigation of petroleum hydrocarbon contaminated soils excavated from an area near the former site office building. Detailed descriptions of the construction and the as-built drawings as well as soils investigations completed during construction and the results of ground water level and surface water discharge monitoring are presented in Chapter 4 of this document.

# 3.0 PERFORMANCE STANDARDS

## 3.1 Construction Quality Assurance

A Construction Quality Assurance (CQA) Plan was developed as Appendix B to the Draft Final RAP (GET, 2009) for use during the Phase II site remedial construction. The purpose of the CQA Plan was to establish work lines of authority and designate responsibilities in order to ensure that the completed Phase II work met design criteria, plans and specifications, and performance standards. The work addressed in the CQA Plan included all aspects of constructing the elements of the remedial design to meet the requirements of the remedial actions approved by the IDEQ for Phase II. Construction tasks that had separate CQA requirements included:

- Site survey;
- Materials submittals;
- Excavations, trenching, culvert installation;
- Placement of the filter gravel, riprap and stream structures;
- Survey of final grades;
- Reclamation, drainage construction and placement of riprap.

The principal organizations involved in designing and constructing the site remedial actions included:

- IDEQ;
- Nu-West Mining (current owner of the former Central Farmers fertilizer facility) and its parent company, Nu-West Industries, Inc. (jointly referred to herein as "Nu-West") who were responsible for instituting the construction quality assurance and Phase II stream channel construction for the site;
- Global Environmental Technologies LLC (performed site investigation and CQA oversight);

- A certifying engineer (Paul Kos, P.E. of Norwest Corporation, completed issue for bid (IFB) and issue for construction (IFC) drawings and engineering design for the site based on the RAP conceptual site designs);

- CQA personnel which included a project manager, a project quality assurance officer (PQAO), and a CQA construction manager (employees of Nu-West, GET, and Norwest);

- Qualified construction contractor including an earthwork contractor (Conestoga Rovers Associates (CRA)), a subcontractor to set up the bypass piping for the creek (Rain for Rent), a reclamation contractor (Evans Range Reclamation of Pocatello, Idaho) and a fence contractor.

- Professional engineering services for soils testing and soil compaction testing (Harper-Leavitt Engineering of Blackfoot, Idaho), and;

- Professional surveying services (Surveyor Scherbel, LTD of Afton, Wyoming (a professional licensed surveyor in Idaho) and Summit Land Surveying (Matt Baker PLS of Pocatello, Idaho).

The CQA team provided assurance that the work was completed in accordance with the Draft Final RAP, the Phase II Final Design Plans and Specifications, the Issue for Construction drawings. The purpose of the construction quality assurance was to ensure that unexpected changes or conditions encountered during the remedial construction would be detected, documented, and addressed during construction. The independent quality assurance contractors and certifying engineer reviewed documentation of the construction as it occurred and identified any deficiencies in the plans or work, such that changes could be implemented into the design and construction as these occurred. Reviews made by the certifying engineer during and following field construction are documented in Section 5 to this report. The overall responsibility of the CQA personnel was to perform activities specified in the CQA plan including inspection, sampling, and documentation of the remedial action construction for the Phase II activities.

Both Norwest and GET provided field documentation of site activities during the site investigations and Phase II remedial construction phase. CQA inspection activities included:

- Oversight of the removal of the ore from Phosphoria Gulch and the sediment pond;
- Observation and documentation of all work as it pertained to the design plans and specifications;
- Conducting and documenting compaction testing required by the specifications, quality assurance and quality control programs;
- Performance of independent on-site inspection and surveying of the work in progress to assess compliance by the contractor with the excavation and slope criteria, weir survey points, plans and specifications;
- Reporting to the contractor and subcontractors the results of all tests and observations as the work progressed, and;
- Reporting to the contractor the results of all inspections, including work that did not meet the required design specifications and CQA Plan criteria.

Documentation of the CQA activities are presented in Appendix C to this report. This appendix presents testing data, materials certifications, laboratory test results, as required by the CQA plan.

## 3.2 Construction Quality Assurance Testing Results

### 3.2.1 Survey Performance

An initial base map was provided by Nu-West to CRA prior to site remedial construction activities. Two survey parties were used for the project. Both Surveyor Scherbel LTD of Afton, Wyoming and Summit Land Surveying of Pocatello, Idaho performed site surveys along established survey control points. Survey support was used to establish as-built construction of the Phase II excavations, benches, and stream structure features and

filter gravel and riprap placed in the channel. CRA performed day-to-day grade surveying as the work progressed between quality assurance surveys.

The CQA surveyor (Matt Baker, PLS) checked final grades and elevations of the remedial design construction against the plans and specifications, and the work performed by CRA. It was the responsibility of the earthwork contractor (CRA) to meet the lines and grades of the IFC drawings and to provide as-built survey of the completed work that referenced grades and/or elevations. The surveys performed by both Scherbel and Matt Baker, PLS agreed with each other and are the basis for all as-built elevations and drainages shown on the as-built drawings discussed in Chapter 4 of this document.

### 3.2.2 Soil Compaction Testing

When earthwork density testing was required, Harper Leavitt Engineering performed QA field moisture and density tests using a Troxler Gauge. Nine rounds of QA soil testing were performed on 1-foot lifts between the dates of June 28 and July 22, 2010. Testing results indicated that all of the soil lifts on the sediment pond berm and road achieved compaction specifications of 95 percent on the first test. Additional water and compaction was required where tests did not pass. The project quality assurance officer verified compaction efforts by performing multiple density tests per lift as required by the certifying engineer.

Results of the soil compaction and moisture tests are contained in Appendix C to this report. Compaction requirements were based on laboratory geotechnical testing results from the screened soils obtained from 3-inch minus soils from Dud Hollow.

### 3.2.3 Riprap, Filter Gravel, Sill and Weir Placement

A 6-inch layer of filter gravel and an 18-inch thick layer of rock riprap was placed within the excavated channel from the surveyed benches to the channel invert. Rock grade 2

riprap was obtained from stockpiled oversize materials generated during soil screening in Dud Hollow. Filter gravel was obtained from two local sources. Survey stakes were placed in the surveyed channel base and sloped surfaces and marked to a measured 6-inch depth for the filter gravel and marked 18-inches above the filter gravel elevation prior to material placement. Riprap was first screened through a 3-inch grizzly and stockpiled. Placement of the riprap on the filter gravel was achieved using end-dump trucks for transport and along the margins of the channel and place to the final grades using an excavator and a long-stick excavator to achieve the final appropriate thickness.

A rounded filter gravel was used for void filling following riprap placement. Results of gradations are presented in Appendix C.

## 3.3 Resolution of Problems Encountered

During the excavation of the Phase II stream channel, greater efforts were required to demolish and remove at-grade and sub-grade concrete within reinforced foundations and footings. The contractor invested considerable additional resources to address removal of these structures. Additional to the building foundations, sub-grade drawings from the site indicated that the buildings at the former Central Farmers site contained pipelines, wire, corrugated metal pipe and concrete pipe, steam and seal oil pipelines, conduit, drains, sumps, valves, railroad ties, metal, and other infrastructure beneath and between buildings. Encountering elemental phosphorus was also probable, therefore these issues were addressed in advance in the "encountering unexpected conditions" section within the Phase II specifications. During channel excavation, elemental phosphorus was encountered in a septic tank and in shallow soils excavated near tank springs, discussed in Section 4.6.1. As a result of these issues, continuous monitoring at the site was required by Nu-West during all intrusive work and included monitoring for phosphine and HCN. Results of this monitoring is presented in Appendix E.

Construction was finished in accordance with the schedule as the result of good weather, and constant coordination and communication between the PQAO, CRA, and

CRAs subcontractors. Daily progress and activities planning meetings were held between the PQAO and CRA to resolve problems or deficiencies in the Phase II construction work as they were identified. The purpose of the daily meetings was to define and resolve problems from previously completed activities, or work out deficiencies, and anticipate the coordination of scheduled work. IDEQ were informed of problems that arose during construction on a routine bi-weekly basis, accompanied by the progress schedule that was required by the Consent Judgment. These project updates to IDEQ and the progress schedule updates are contained in Appendix D to this report.

# 4.0 PHASE II REMEDIAL CONSTRUCTION ACTIVITIES

## 4.1 General

Remedial construction for the Phase II work at the Central Farmers site began on June 10, 2010 and was completed on October 26, 2010. Photographic documentation of the remedial Phase II construction is shown in Appendix A to this report. All earthwork construction and related activities described in the specifications for the stream channel excavation, as well as the drainage improvements and soil and riprap borrow from Dud Hollow was performed by Conestoga Rover Associates of Kalamazoo, Michigan. Heavy equipment used in the excavation and construction of the stream channel included four track hoe excavators of various sizes, one long-stick excavator, two D-6 dozers, a loader, a road grader and one backhoe. Three 30-yard end dump trucks were used to haul channel excavated spoils, phosphate ore, borrow soils, road base materials, filter gravel, riprap and boulders during the remedial construction. A vibrating sheeps foot roller was used on the spoils and areas that required soils compaction testing and a smooth drum roller was used to achieve compaction of road base grade. A stone box was used to provide riprap to the long-stick excavator for placement of the filter gravel due to the long reach to the channel.

One water truck was used to add additional moisture to the soil lifts and road base materials to achieve moisture and compaction requirements and to control fugitive dust as required by the health and safety plan. Dust measured during the construction is documented in Appendix E to this report. Water was obtained on demand from an existing deep well GT-Deep and stored in a 28,000 gallon frac tank.

## 4.2 Pre-Construction Meeting

A pre-construction meeting was held on June 15, 2010. Members of the CQA team present included James Williams (consultant to Nu-West), members of CRA who

performed the earthwork and JB Brown of Global Environmental Technologies, LLC. Items discussed during the meeting included:

- Reviewing work area security and safety protocols, health and safety issues, location of hospital, emergency protocols;
- Reviewing protocols if unexpected conditions were encountered such as elemental phosphorus or sources of oils or other hydrocarbons in pipes or soils;
- Familiarizing each party with the site-specific CQA plan and its role relative to the design criteria, plans and specifications;
- Discussing the CQA Plan including established procedures or protocol for observations and tests;
- Review of the EPA storm water pollution protection plan (SWPPP) permit and the contractor requirements for maintaining the requirements during Phase II construction and storm water BMPs;
- Review of site-specific environmental health and safety issues including full-time monitoring for phosphine and HCN gasses during all intrusive work;
- Addressing water requirements for construction and mandatory fugitive dust control and monitoring requirements;
- Decontamination requirements on site for equipment;
- Schedules, construction planning meetings and periodic reporting;
- Reviewing the responsibility of each party;
- Reviewing lines of authority and communication of each party;
- Discussion of weather-related issues in the Soda Springs to Montpelier area that could impact remedial action construction efforts;
- Discussing methods for documenting and reporting inspection data;
- Discussing procedures for the location and protection of construction materials and for prevention of damage of the materials from inclement weather or other adverse events, and;
- Determining locations to begin the work, and the schedule to accommodate completion of excavation and coordination with the installation and utilization of the

CMP bypass pipeline to contain Georgetown Creek during abandonment of the crossings, completion of channel riprap and stream structure placement.

## 4.3 SWPPP BMP Placement

Prior to excavation and dewatering of excavations and the sediment pond, storm water BMPs were specified by the PQAO and placed by CRA as per the site SWPPP in order to prevent runoff of sediment generated during Phase II excavations, spoils compaction placements, stockpiles, and disturbances to Georgetown Creek. BMPs employed during the work and left in place following the completion of construction included:

- Placement of silt fences and silt berms along Phosphoria creek and straw wattle and water bars following reclamation;
- Silt berm placements and silt fences in Phosphoria Gulch south of Phosphoria Creek;
- Placement of hay bales and silt fence at the south end of the channel excavation;
- Regrading the boulder stockpile and Phosphoria drainage to provide slope towards the sediment pond;
- Placement of silt fence along the east side of Georgetown Creek where the temporary bypass pipeline was installed and removed;
- Silt berm placements along the east bank of Georgetown Creek to the north and south of the newly constructed channel;
- Silt fences to the south and to the east of the north spoils area;
- Silt fences and silt berms around the south spoils area to prevent sediment runoff to the clarifier drainage and to Georgetown Creek or off the site to the south;
- Berms around fueling areas and double containment for fuel tanks.

Inspections of the BMPs were made and documented by the PQAO or the construction manager on a weekly or bi-monthly basis (BMP dependant) and within a 24-hour period following storm events producing 1/2 inch or greater precipitation.

## 4.4 Test Pit Investigation

Test pits were excavated using a CAT 336 excavator between the dates of June 14 to June 23, 2010. Locations are shown on Drawing/Figure 4-1. The purpose of the test pits excavated along the length of the CMP bypass channel was twofold:

- To measure the precise elevation of the invert of the CMP at the crossings to check against the IFC design drawings; this was to verify whether the CMP was in the previously assumed locations prior to construction, and;
- To obtain a better understanding of the subsurface with respect to the stability of the channel slopes.

Photographic documentation of the test pit work is presented in Appendix A. Locations of test pits TP-101 to TP-113 are shown on Figure 4-1, and results are summarized in Table 4-1. Test pit logs are contained in Appendix F. Two of the test pits (TP-107 and TP-114) were not excavated. Test pit TP-107 was sited on concrete piers and could not be excavated, and the CMP was located in TP-113 and TP-115, eliminating the need to excavate TP-114. At each test pit location, construction, site fill and native materials were encountered and logged and depths to water were noted. Material depths and depths of lithologic changes, utility occurrences, evidence of phosphorus or other types of contamination, and identification of any potential weaker layers that could affect slope stability were noted on the logs. When the CMP was identified in the test pits TP-103, TP-113 and TP-115 and the locations and elevations checked against the IFC drawings, it was determined that the construction could proceed following the alignment and grades shown on the original engineered design. However, based on the engineered crossing locations it was also probable that the CMP would require removal from the excavated channel, approximately between stations 21+00 to 26+00 along the channel alignment.

## 4.5 Sediment Pond Clean Out and Reconstruction

Location of the sediment pond is shown on Figure 4-1 and Drawing 4-1. Prior to channel excavation, the sediment pond was cleaned of ore that had washed from Phosphoria Gulch. Analytical results from sampling the ore in the pond are presented in Appendix C. Photographic documentation of the work is presented in Appendix A.

Phosphoria Gulch water was diverted and the pond drained through the adjacent slag materials in the existing dike within approximately two days. Between June 18 and June 22, 2010, CRA removed approximately 3,807 yards of ore from the pond, prior to excavating the berm to the west of the pond. The ore was protected by silt fences and silt berms to prevent potential ore runoff to the creek. The berm was reconstructed using 3-inch minus soils screened from Dud Hollow with a Terex Finley Power Screen. Initially, a trapezoidal keyway was cut from station 23+20 to 28+00 between elevations 6935 to 6938 feet. The keyway was backfilled in one-foot lifts and compacted to 95 percent compaction at optimum moisture. Details of the construction are shown on Figure 4-3. Compaction results are presented in Appendix C. Subsequent one-foot lifts were made, raising the elevation of the berm to final grades by July 22, 2010, prior to placement of road gravel. Approximately 6,940 yards of 3-inch minus soil were placed in ten lifts. The ore that was removed from the pond was taken from the site to Soda Springs Phosphate in Soda Springs, Idaho for processing.

## 4.6 Channel Excavation

Excavation of the stream channel was initiated June 25, 2010. Photographic documentation of the work is presented in Appendix A. Precautions were taken during the excavations to minimize the potential for silt materials to enter the stream during construction, and silt fences and constructed berms were strategically placed to keep silt from entering the waterways in accordance with the site SWPPP. In general, excavation of the channel proceeded from the south to the north, working initially between stations 23+00 to 26+00 where test pit TP-113 was excavated. Excavation

was focused on the channel footprint areas located between the pipeline crossings, allowing Georgetown Creek to remain in the CMP for as long as possible during the excavation phase. Channel construction was completed in dry conditions, however, pumping was required for several areas between stations 2+00 to 8+50, typically in the morning prior to work.

Construction of the channel required the excavation of more than 88,000 $yds^3$of material and a significant volume of reinforced concrete. Materials derived from the excavation of the channel were transported by truck to 3 (north, middle, and south spoils) areas east of the channel shown on Figure 4-1, dozed into 6-inch lifts with a D-6 dozer, and compacted using a vibrating sheep foot compactor. No spoils were placed in Phosphoria Gulch. All spoil areas were protected with berms and silt fences to preclude introduction of material runoff into Georgetown Creek or the contributing side streams. Plan view and cross sectional views of the channel are shown on Figure 4-3.

The inlet invert design elevation of the CMP bypass channel was 6967.6 feet. The CMP bypass stream terminates near the CMP outlet into the Georgetown Creek channel at an elevation of approximately 6919 feet. The channel construction consisted of a riprap armored triangular-shaped channel, two feet deep with 2H:1V side slopes as shown on Figure/Drawing 4-3. This triangular channel was constructed to convey flows up to the peak annual flow (measured in the field to be approximately 30 cubic feet per second (cfs)). A three-foot wide vegetated bench on each side of the riprap channel was constructed to provide riparian habitat. The riprap channel combined with the vegetated bench was designed to convey flows up to the 100-year event. The alignment of the CMP bypass stream channel included five bends with curve radii all greater than 200 feet. The stream reconnects with the existing stream at 6918.8 feet elevation for a total length of about 2,600 feet, as shown on Figure 4-1 and 4-2. The CMP bypass stream channel was excavated by an average of approximately 20 feet into the existing site fill to achieve grade. Slopes on either side of the channel are 2:1 and feathered to existing grades. The slopes on the east side of the channel between 13+10 and 17+00 are graded 3:1 as the result of the removed foundation concrete structures.

### 4.6.1 Unexpected Conditions During Channel Excavation

#### 4.6.1.1 Septic Tank with Phosphorus

A septic tank was unearthed on June 30, 2010 while excavating the CMP bypass stream channel. The tank appeared to be precast concrete with dimensions of 20 feet long, 9 feet wide and 8 feet tall. The septic tank was located within the excavation for the CMP bypass stream channel. Therefore, the septic tank and contents needed to be moved and disposed of at a single location.

The lid was removed with an excavator. The tank was intact and structurally stable. The contents of the tank were found to be discharging from a 6-inch pipe connection, but the tank was full of liquid identified as human septic waste by the odor and by the infrastructure site map identifying the tank as a septic tank. No phosphorous was initially detected during the air quality monitoring. Soil was added to the liquid to create a sludge that could be removed from the tank and disposed of in the onsite landfill. Four truck loads (approximately 80 $yds^3$total) of sludge were removed from the tank before the odor of oxidizing phosphorous was identified. Air quality monitoring on July 2, 2010 showed no detection of gases from the septic tank.

On July 20, Nu-West proposed to place the septic tank and sludge in a bermed containment cell disposal area located in the spoils pile between the sediment pond and the clarifier. The location is identified on the Figure 4-1. This location was selected because it was about 70 feet above the water table and away from surface water pathways and was close to the initial tank location, thus shortening the transport distance. Nu-West proposed to mix and oxidize the waste from the tank within the containment cell. The disposal area was prepared as a compacted earth pad with containment berms. The cell was used to mix and contain the waste from the septic tank until the waste was completely oxidized.

On July 22, 2010 the IDEQ approved the methods and procedures to move the tank and treat and cover the waste. The septic tank and sludge were successfully moved to the disposal area on July 29, 2010 in accordance with the plan. The sludge was removed from the tank and placed in the disposal area. The phosphorous started reacting as soon as it was excavated from the tank, starting the one-hour time frame allotted for the phosphorous to react. The empty tank was then dragged to the disposal area. An excavator was used to agitate the sludge and enhance the reaction. Photographic documentation of the work is presented in Appendix A. The sludge was wet, which prevented oxygen from reaching the phosphorous, and the reactions were minimal unless the sludge was agitated. The team decided to put the wettest and most reactive sludge, which came from the bottom of the tank, back into the tank to halt the reaction. Moving the sludge once again agitated the material causing the reactions to occur. The less reactive sludge was left in the disposal area. No smoke or flames were identified once the most reactive sludge was placed back in the tank, but an odor could be detected near the disposal area. The phosphine concentrations were below the detection limit of the air quality meter, as it read 0.0 parts per million (ppm) even when an odor could be detected.

Nu-West considered that there was a small amount of phosphorous in the sludge and proposed to continue to agitate the sludge to allow for further oxidation of the phosphorous. The sludge was reacted in accordance with regulations described in IDAPA 58.01.01.615 Dangerous Material Fires. The dangerous material fires regulation allows fire to be used “for the purpose of prevention of a fire hazard when no practical alternative method of disposal or removal is available”. The plan was modified such that an excavator was used to agitate the sludge over the course of several days. The procedure followed each day included:

- Notifying the IDEQ before 9:00 AM each day the sludge was to be reacted;
- The sludge was only reacted during favorable weather conditions, including clear, light breeze, and no fire restrictions, and;

- The sludge was not agitated after 3:30 PM as required by IDEQ to allow for the smoke to fully dissipate before dusk.

The sludge that was outside the tank was reacted first, because it has had time to dry and reacted with minimal agitation. The sludge in the tank was excavated approximately one-third at a time to allow the more reactive sludge to dry, and react, quickly. When all the sludge that had been removed from the tank and reacted, the tank was refilled with the reacted materials and compacted, grouted using an approximately 6-inch layer of concrete and the entire disposal area was then covered with a minimum thickness of three feet of soil. The area was re-vegetated with the approved seed mix.

#### 4.6.1.2 Tank Spring Phosphorus

On August 9, 2010, small amounts of elemental phosphorus were identified within the slag fill while excavating the north bank of Tank Spring. These soils (approximately 30 yards) were loaded in a truck and taken to the septic tank cell for oxidation. Treatment of the Tank Springs soils was completed in accordance with the septic tank phosphorus plan, concurrent with treatment of the septic tank soils. Air quality was continuously monitored. No detections of phosphine or HCN were made during treatment, and treatment was concluded on August 26, 2010 following two days of no visual appearance of smoke from the soils. The final area was covered with more than three feet of soil cover following oxidation of the phosphorus and the area was re-vegetated with the approved seed mix.

#### 4.6.1.3 Hydrocarbon Contaminated Soils

Excavated soil found north of the septic tank but in the general area of 20+60 on the CMP stream bypass channel alignment (shown on Figure/Drawing 4-1) was noted to have a petroleum odor. There were no LEL detections in the vicinity of the soil. Channel excavation was temporarily halted while this soil was segregated and moved to the north spoil pile, shown on Drawing/Figure 4-1. In total, there were seven, 15-yard

loads segregated from other spoils excavated from the channel. There was a hydrocarbon odor from four of the seven piles. A temporary berm was established around the soil until further evaluation was completed. The soil containing the hydrocarbon odor was not known to be associated with petroleum storage on site, but could have been related to heating oil for the former office building.

Testing of the soil in accordance with the Draft Idaho Risk Evaluation Manual for Petroleum Releases (June 29, 2010) was recommended to enable evaluation of the risk and determine ultimate disposition of the soil.

*Organics Sampling*

Piles 3, 5, and 7 had no odor detected and were placed in the segregated area as part of the over excavation. Piles 1, 2, 4 and 6 had odors detected. In order to conduct risk assessment for the soils, composite samples were taken on August 17, 2010 as follows:

- One composite sample was taken from each of piles 1,2,4 and 6. Each composite consisted of thirty discrete, equal portioned increments from different locations within each pile. The composite was mixed at the site, and a portion of the mixed composite was submitted to the lab for testing using methods M8270C and M8260B. A duplicate of one of the composites was also submitted as a blind QA/QC sample.

- Two composite samples were collected from those piles that had no noticeable odor (3, 5, and 7). Thirty discrete increments were taken from piles 3, 5, and 7- ten increments from each pile for each of the two composite samples. The increments were mixed at the site, and a portion of the mixed composite were submitted to the lab for testing. Samples were analyzed for the full suite of M8270C and M8260B analytes.

*Soils Results and Disposal*

Results were received from the lab on August 27, 2010 and are presented in Appendix C. As provided in the draft Idaho Risk Evaluation Manual for Petroleum Releases (Petro REM), results were compared with screening levels protective of ground water (IDEQ June 29, 2010). Table 4-2 presents Petro REM constituents that were detected.

All constituents were below the screening levels for groundwater protection. In addition to the constituents listed in Table 4-2, constituents listed on Table 4-3 were also detected at small concentrations. With the exception of TPH detected in for Pile 6, all results shown in Table 4-3 were flagged with a J, estimated as detected. A J flag indicated that the analyte concentration was detected at a value between the MDL and PQL and the associated value is an estimated quantity. Table 4-4 presents a list of detected compounds and screens these levels with EPA Region IX Regional Screening Level (RSL) table for Industrial Soils.

Site soils from the piles shown in Table 4-4 were an order of magnitude below these screening levels for these three constituents and therefore did not indicate any significant sources of risk to human health or the environment. There is not an RSL for Phenathrene since a chronic oral exposure (RfD) and chronic inhalation exposure (RfC) were not available. There is not a specific RSL for the TPH parameter. While there were small detections of TPH $C_{10}$ to $C_{28}$, the concentrations of BTEX, Naphthalene, MTBE, Anthracene, Pyrene, Chrysene and benzo(a)pyrene concentrations (typical components of TPH) were non-detect, or were well below the Petro REM protection of ground water screening levels. These screening levels are the lowest target concentrations for the routes of exposure for soil and ground water. Therefore the TPH concentration of detected compounds in these soils did not indicate any significant sources of risk to human health or the environment.

Based on these results, IDEQ replied on September 10, 2010 that the results from the sampling were acceptable, and that "a quick risk assessment using Regional Screening Levels, Pile 2 has an industrial risk of $2E^{-06}$ and residential risk of $2E^{-05}$ (with Benzo(a)pyrene the risk driver). The IDEQ found these risks to be acceptable. Based on IDEQ review of the data it appeared that the only pile with notable contamination was pile 2. The other piles appeared unimpacted and IDEQ requested that Nu-West cover Pile 2 with the three feet of compacted soil as proposed by Nu-West. All of these soils were covered with a minimum of 3 feet of soil in the north spoils area.

#### 4.6.1.4 Drain Field Soils

During the excavation of the channel, clay pipe leach field pipelines from the septic tank leach field were intercepted prior to the discovery and removal of the septic tank. Soils from this excavation around the drain field were transported to the south spoils area south of the clarifier, compacted, covered by additional spoils from the excavation and reclaimed using the approved seed mix. On August 10, 2010, IDEQ requested that Nu-West obtain 2 samples for total RCRA metal analysis to demonstrate that residual contamination was not present in the channel excavation. Soil sampling was completed on August 12, 2010 at the following locations:

- CF Drain field 1: N. 315528.41 E. 899772.70 el. 6927.93
- CF Drain field 2: N. 315560.34 E. 899734.65 el. 6930.17

These two locations were obtained from the soils found several feet below the excavated leach field soils. Results are contained in Appendix C and results are compared in Table 4-5 to previous results. Table 4-5 is derived from the site investigation (SI) that compares all of the surface soil samples obtained, including boring soil analytical results obtained from the 3-foot depth. Ore samples are not included in this analysis. Drain field soil results indicated that metals are less than the maximum surface soils concentrations in all cases, and less than the mean metals concentrations of the surface soils with the exceptions of iron, mercury and phosphorus. In each case, the soils metals concentrations are below preliminary Remediation Goals for Residential Soils, except arsenic (background arsenic in soil exceeds PRGs) . Therefore, these soils were considered at or below risk levels posed by site surface soils and should not adversely affect surface water quality or require any additional considerations for disposal.

### 4.6.2 Building Foundation Demolition

Most of the concrete demolition work took place between stations 12+50 and 15+50 shown on Figure 4-2. Demolition and removal of the reinforced concrete structures was initiated using a CAT 320 excavator with a hoe ram attachment on June 21. Photographic documentation of the work is presented in Appendix A. As the result of slow progress and difficulties encountered during the demolition, a concrete shear was utilized on the CAT 336 excavator beginning on July 10, 2010. The concrete TSP building and the TSP storage building foundations which were covered prior to Phase II construction had reinforced concrete walls, tunnels, sumps and piers and other structures that required additional time, effort and resources for demolition. Much of the building foundations and tunnels were holding a significant volume of water and required dewatering with 4-inch pumps prior to excavation. Most of the concrete excavation from this area was completed during the first week of August.

Concrete and steel materials that were removed from the channel excavation were transported in CAT 740 off road trucks to the existing landfill area that was utilized in 2001 for the plant building demolition. This landfill is located on the east side of the canyon immediately to the west of Phosphoria Gulch, as shown on Figure 4-1. Between June 19 and August 11, 2010, approximately 8,020 yards of concrete were hauled by truck to the landfill area. The landfill was covered with a minimum of three feet of soil and reclaimed using the approved seed mix, shown in Table 4-6.

### 4.6.3 Side Drainages and Culvert Installations

Two side drainages, Tank Spring and Syncline Spring were connected to the main stream channel as part of the drainage engineering design. Drainages and culverts are shown on Drawing/Figure 4-1. Photographic documentation of the work is presented in Appendix A. The confluence with the channel from Tank Spring is about 650 feet south of the inlet (approximately station 8+20) at an invert elevation of approximately 6959 feet. An open channel for Tank Spring was excavated between August 10 to August

13, 2010 in dry conditions to convey Tank Spring from north of the construction dewatering drop box to the bypass channel as shown on Drawing/Figures 4-2 and 4-5. The Tank Spring channel was excavated for approximately 165 feet in length at a grade of about five percent to the west. An 18-in CMP culvert was installed at the east end of the channel cut to provide access to the north gate from the site road that passes west of the slurry pit cover. About 36 inches of compacted fill and 6 inches of road base were placed over the culvert. The Tank Spring drop inlet was grouted closed using one cubic yard of concrete by CRA on September 15, 2010. The banks of Tank Spring were dressed with about 6 inches to one foot of soil for growth medium due to the slag prevalent in the stream cut.

The existing culvert that conveyed water from Syncline Spring to the CMP under Georgetown Canyon Road was abandoned. On September 18, an 18-inch culvert was installed from Syncline Spring to the newly constructed stream channel at locations shown on Figure 4-2. The culvert inlet area was improved by berming the area, lining the inlet area with one super sack of bentonite and covered with filter fabric and 18 inches of riprap. The culvert was set at invert elevation 6966.6 feet at N: 316740, E: 899790, approximately 40 feet northwest from the existing inlet. The installed culvert was approximately 80 feet long with the outlet day lighted on the channel cut slope at an invert elevation of 6965, with an overall slope of about 2 percent, as shown on Drawing/Figure 4-3. Discharge from the culvert collects on the channel slope in a 6-foot wide riprap chute spillway that conveys the water from the culvert to the Georgetown Creek channel. The spillway was constructed of grade 2 riprap placed to an 18-inch thickness.

The culvert trench was backfilled with 3-inch minus soil that was compacted in 6-inch lifts. A minimum of 18 inches of compacted road base was placed over the culvert. An additional 6 inches of road gravel surfacing material was placed above the fill and compacted using a vibrating smooth drum roller compactor.

### 4.6.4 Cofferdam and Creek Bypass Pipeline

By the first week in August, excavation of the stream channel had progressed as far as possible along the lines of the engineered plans and drawings without disturbing the 60-inch CMP. Approximately 80 percent of the entire channel had been excavated by the second week in August, while the remaining areas to be excavated were at CMP crossings or in direct contact with the CMP. In order to continue with the excavation, CRAs subcontractor (Rain for Rent) installed a temporary cofferdam and an 18-inch bypass pipeline between August 11 and August 19, 2010. An additional pumping station was placed immediately north of the CMP inlet to capture a flow of about 60 gpm that was entering the channel between the dam and the inlet through the slag.

Approximately 3,650 feet of 18-inch HDPE pipe were welded together to bypass the Phase II working areas. From the cofferdam to the CMP inlet, the pipe was placed on the east side of the creek, installed on a 0.8 percent grade. The east bank of the creek was slightly modified to contain the pipe on a slope and silt fence was placed below the pipe to prevent soil entry into the stream channel. From the inlet to the discharge below the Phase II channel, the pipe was placed on an approximate 2 percent slope. The end discharge from the pipe near the creek was contained in a dissipater that reduced discharge energy to prevent erosion from the discharge. The cofferdam and pipeline remained active until October 6, 2010 when the water was introduced into the newly constructed channel. The coffer dam was removed on October 8, 2010. Photographic documentation of the coffer dam and bypass is presented in Appendix A.

## 4.7 Riprap and Stream Sill and Weir Structure Placement

Placement of the filter gravel and the riprap, sills, and weir structures and plunge pools was initiated on August 27, 2010, while excavation continued at other locations. Locations of these structures are between stations 14+50 and 25+66, with station designations shown on Drawing/Figure 4-2. All rocks used in the construction were obtained from an on-site borrow source in Dud Hollow.

A 6-inch filter gravel layer was placed directly on the excavated slopes to act as a filter medium beneath an 18-inch thick riprap layer. Riprap consisted of 10-inch angular stone with a maximum size of about 15 inches. The riprap was installed to provide hard armor protection for the triangular channel. Cross section detail of the channel is shown on Drawing/Figure 4-3. Additional material (3-inch minus rounded river stone) was sprinkled into the riprap to fill voids to minimize flow through the armor after the riprap was placed. Photographic documentation of the work is presented in Appendix A.

Five riprap sills were installed at locations shown on the cross section on Drawing/Figure 4-2. Sills were constructed prior to riprap placement to prevent undermining of the riprap at gradient changes in the channel and next to the slurry pit, and at the end of the channel. Sill cross section detail is shown on Drawing/Figure 4-4. The sills were constructed of large riprap and boulders that were keyed into the channel to a depth of 36 inches below the elevation of the channel invert to prevent possible undermining of the riprap by the creek. The constructed sills were 14 feet in width and extended across the channel beneath each bench. The widths of the sills are five feet along the channel. Stones that exceeded the maximum diameter of the channel riprap were used to construct the sills.

Gradient control structures included rock weirs that were installed prior to the placement of riprap and filter gravel on either side of the structure. Weirs were installed between September 6 and September 17, 2010 in accordance with the survey coordinates in Table 4-7 and at locations shown on the cross section in Drawing/Figure 4-2 . Jim Lovell of Confluence Consulting Inc., a stream restoration consulting company, inspected the site and provided expert guidance on weir construction and written recommendations for stream construction on September 9 through 10, 2010 (contained in Appendix C). Confluence's recommendations were implemented in the construction. Rock weir construction included only the footer rocks as the result of the large available sizes of boulders at the site and as recommended by Confluence to avoid reducing the stream cross sectional areas. Footer rocks were placed within the riprap above the filter gravel

layer. The center stone at each weir was surveyed during the construction to ensure that the height was approximately 3 inches lower than the surrounding stones to allow for concentrated flow during low-flow conditions. The maximum surveyed drop at each rock weir was set to one-foot. Rock weir structures were constructed of clean, sound, dense, durable, angular rock fragments and boulders with diameters ranging from 10 to 27 inches or greater. Rocks were keyed into the stream banks to minimize the likelihood of bank erosion. Details of the weirs are presented on Figure 4-4.

## 4.8 CMP Abandonment

The CMP inlet was abandoned for the first 60 feet (plug and concrete grout seal) on September 27, 2010 using a custom-made bolt-on flange bulkhead to form a water-tight seal against the CMP inlet. The area immediately upstream of the bulkhead was backfilled with coarse bentonite to provide containment for the grout plug, as shown on Drawing/Figure 4-3. The bentonite, the flange and grouted pipe were covered with non-woven filter fabric and then backfilled with and recompacted in 6 inch layers using a sheep foot vibrating compactor. The upper 60 feet of the CMP were opened up, the CMP exposed, and 8-inch holes cut every 6 to 8 feet in the top of the CMP to install the concrete grout. A plug was set in the pipe between 50 and 60 feet downstream of the inlet at location N:317447 E: 900705 , elevation 6967.05 (top of CMP). Approximately 39 yards$^3$ of sand-cement grout mixture was pumped into the CMP upstream of the plug into each opening in the CMP until the grout reached the bulkhead. Grout was placed until the CMP was completely filled. Each section indicated that the grouting was completely filling the pipe. The grout was also placed into the excavation on the outside of the CMP and above the CMP. The excavation was backfilled with about 420 yds$^3$of compacted fill between the blind flange on the north end of the CMP to channel station 1+50, as shown on Drawing/Figure 4-2 and 4-3. Backfill was completed in 6-inch lifts and recompacted approximately 48 hours following grouting to allow for maximum yield strength.

Abandonment of the CMP crossings was completed between September 16 and September 27, 2010. Photographic documentation of the work is presented in Appendix A. The CMP was exposed within the stream channel excavation at two channel crossing locations. Crossing locations are shown on Drawing/Figures 4-1 and 4-2. The upstream outlet was surveyed at N:316963.89 E: 900063, elevation 6961.64 and the crossing was surveyed N:316847.08 E: 900022.36, elevation 6960.78. At the outlet end of both CMP crossings, a 12-inch HDPE pipe was placed inside the CMP through the concrete grout plug to allow for drainage from the abandoned sections of the CMP. The downstream CMP was plugged with concrete and two super sacks of bentonite (each supersack consists of 3,000 lbs, or about 1.4 $yds^3$), were placed against the end of the CMP. The bentonite and plug ends of the CMP were then covered with filter fabric and backfilled and recompacted onto the slopes. The upstream outlet and crossing abandonments required about 9 $yds^3$ of concrete and one super sack of bentonite to complete the upper crossing abandonment. Crossing construction is detailed on Drawing/Figure 4-3.

At the downstream crossing location (N: 315945 E: 899831, elevation 6943.2), only the outlet crossing construction was completed because the CMP was removed from this location to the end of the channel at station 26+00. Approximately 4 $yds^3$of concrete and one super sack of bentonite were used to abandon the outlet end of the lower crossing.

On September 21, CRA abandoned a tunnel opening for an east-west conveyor system that led to the TSP building, located approximately N:316062, E: 899795. The tunnel was completely exposed on September 20 and a soil plug was placed back inside the tunnel to the east to form a blockage. The tunnel led to a concrete vault at the west end. The vault and tunnel were filled with about 10 $yds^3$ of concrete until the opening was covered. Following about 36 hours curing time for the concrete, CRA backfilled the tunnel excavation with 3 super sacks of bentonite, covered the bentonite with 8-oz filter fabric and filled and compacted the remaining area with soil, matching the existing 2:1 slope grade on the east side of the channel excavation.

## 4.9 Stream Activation

The opening of the pipeline into the newly constructed Georgetown Creek stream channel went as planned and as scheduled on October 6, 2010. Photographic documentation of the work is presented in Appendix A. Mark Dietrich, Bruce Olenick, Doug Tanner and Mark Jeffers, all of IDEQ, and James Williams (consultant to Nu-West) were in attendance. Riprap and in-stream structures were completed, and the IDWR had concluded their inspection of the stream channel work on October 1, 2010. IDWR was satisfied that the work was completed such that the stream could be activated.

The 18-inch pipeline was shut off at the gate, then cut and moved into the stream channel by CRA using 3 excavators and a loader at station 3+00. Dissipater rocks were strategically placed at the pipe discharge point to reduce stream discharge velocities. Water was first placed into the stream through the pipeline along the east side of the creek such that the pipeline could be moved out of the way and that the last remaining excavation could be made from the new to the existing channel near station 1+80. Water was introduced into the channel at approximately 13:18 as the gate valve was opened on the coffer dam. By 17:00 on October 6, 2010, the water had visibly reached channel station 14+00, a distance of approximately 54 percent of the total stream length. The remainder of the excavation of the channel to the existing creek bed took place over the following three day period, and the coffer dam was removed on October 8, 2010.

## 4.10 Road Construction

Road construction included the completion of one road section along the USFS Georgetown Creek Road to the west of the slurry pit. This work took place between July 29 and August 6, 2010. A small road cut was made to the west of the road that required the removal of about 550 $yds^3$of soil that was hauled to the north spoils area. Road construction was also completed on the site in September. An on-site road was

constructed beginning along the berm west of the sediment pond, north through the site around the west side of the slurry pit cover to the gate at the north fence. Additional road spurs were constructed to provide access to the on-site monitor wells. Materials used for the road base included a screened mix to conform to the approximate gradation:

| Size | Percent Passing |
|---|---|
| 1.5” | 100 |
| 1” | 97 - 100 |
| 3/8” | 56 - 70 |
| No. 4 | 39 - 53 |
| No. 40 | 12 – 21 |
| No. 200 | 4 – 8 |

Approximately 1,530 $yds^3$ of road base materials were hauled on to the site between August 3 and August 12, 2010 from a source in Soda Springs. Gradations of the materials are included in Appendix C. The road base was raised in 6-inch lifts and compacted. The road aggregate was deposited, spread, and compacted on the prepared subgrade to the required thickness using a CAT 140H grader. After being spread, the road base material was uniformly watered and then compacted.

## 4.11 Ore Removal from Phosphoria Gulch and Reclamation

A stockpile of approximately 8,270 yards of ore remained in Phosphoria Gulch following the completion of the Phase I construction. This ore pile was removed from the site to Soda Springs Phosphate in belly dump trucks. An additional 6,160 $yds^3$of ore located east of the ore cap were removed from Phosphoria Gulch between August 18 and August 25, 2010 and transported to Soda Springs, Idaho for processing into fertilizer. This ore was taken out of the floor of the gulch to clean up the area to native soil grade.

Following the removal of the ore from Phosphoria Gulch, additional soils from the channel excavation were imported and compacted at the former ore stockpile area to provide positive drainage.. The topsoil was scarified, and approximately 600 feet of straw wattle were stapled into place in Phosphoria Gulch to control surface water runoff. The entire area in Phosphoria Gulch north of the stream bed were reclaimed using the approved seed mix, shown in Table 4-6.

Additional actions completed in Phosphoria Gulch included completion of riprap placement in the creek bed that was not accomplished during the Phase I work, and placement of water bars near the ore cap to divert runoff from the reclaimed areas into the Phosphoria drainage channel. Straw bales and straw wattles were placed to trap sediment. Additional straw wattles and silt fencing were added near the mouth of Phosphoria Gulch to prevent runoff of silts into the new drainage or out of the canyon to the site below. The road to Phosphoria Gulch was graded such that surface water runoff from the mouth of the canyon would report to the sediment pond.

## 4.12 Fence Removal and Installation

Approximately 1,975 feet of existing 8-foot chain link fence was removed between the dates of June 18 and June 24, 2010. The fence was taken from the site and recycled.

The new 8-foot chain link site fence was installed between the dates of September 23 and October 6, 2010 by Rocky Mountain Fence of Soda Springs, Idaho. Approximately 145 feet of fencing with 2 swing gates was installed at a location 75 feet north of the Tank Spring culvert with the fence extending from the hillside to the bypass channel cut. This fence blocks traffic from the north, but the gate will allow for access to and from the site to the north on the east side of the channel. A second section of fence, approximately 195 feet in length with two swing gates was installed 410 feet south of the clarifier on the southern property boundary. This gated fence provides the main access to the site. This fence was extended from the hillside to the top of the channel slope to the creek.

## 4.13 US Forest Service Road Easement

The existing Georgetown Canyon Road across the Nu-West property is a reserved easement to the US Forest Service. This was reserved in the original Patent No 1216520 of the Georgetown Canyon Mine Site dated January 18, 1961. During the operation of the plant, a bypass road (former road on Drawing/Figures 4-1 and 4-2) was constructed in the hillside west of the plant to accommodate public access around the plant. Following the closure of the plant, this reservation was acted upon and an agreement dated November 10, 1993 was entered into to establish the location of the easement. The Georgetown Canyon Road was relocated off of the hillside and to its current location along the west side of the site at that time. The easement is for a strip of land 66 feet wide (33 feet each side of centerline, shown on Drawing/Figures 4-1 and 4-2). The Phase II channel excavation required the realignment of the road to the west of the slurry pit. The USFS requested in May 2008 that any adjustments to the road and easement would need to be agreed upon and formally documented. On September 27, the new road alignment and easement boundary was resurveyed. Results of the survey were plotted on a Record of Survey map and summarized in writing in an easement document, sent to the USFS for approval and signature in mid-December 2010. The new easement will be recorded along with the Record of Survey with the Recorder's Office in Bear Lake County.

## 4.14 Site Reclamation

Site reclamation was completed by Evans Range Reclamation (ERR) between the dates of September 14 and October 23, 2010. Photographic documentation of the work is presented in Appendix A. Approximately 19 acres were hydro seeded during this effort. ERR provided both hydro seeding services and labor for the installation of the erosion control blankets. Erosion control blankets were installed between September 17 and October 16, 2010 on the sides of the excavation to reduce erosion and to provide protection during periods of flood flows. Two types of blankets were installed. The benches and bottom of the adjacent slopes were covered with Type 3B erosion

control blankets to two feet above the bench elevation as shown on Drawing/Figures 4-3 and 4-4. Details and specifications of the blankets are contained in Appendix B. Based on analysis of the stream flow (Norwest, 2010), the Type 3B erosion control blanket will be stable during a flow of 65 cfs (100-yr flow according to USGS). The erosion control blanket will also allow for the propagation of the planted woody species, which will provide long-term armoring. The erosion control blanket has little friction and is stable to 6 feet per second; a vegetated channel with a high degree of friction due to mixed grasses and trees is stable to 5 feet per second (Norwest, 2010).

Excavation slopes were protected with a Type 2D erosion control blanket. Both the side slopes and the benches were re-vegetated using the reclamation seed mix shown in Table 4-6 prior to blanket placement. Final reclamation was completed between the dates of September 28 and October 22, 2010.

Woody species trees were planted on the benches between October 22 and October 24, 2010 to provide long-term vegetated armoring against erosion. Seedlings were placed into pre-augured borings. Willow, dogwood and alder trees and snowberry bushes from containerized stock were planted to promote vegetative diversity. Planting of the woody species included 1,200 trees; 200 alder, 200 snowberry, 200 dogwood and 600 willow.

The final grade surfaces to be reclaimed were sampled to obtain nutrient amendment analysis to ascertain nutrient requirements. Sampling of the soils were completed between August 6 and September 10, 2010. Nutrient analysis requirements are presented in Appendix C. Nutrient requirements from the analyses recommended two blends. For the spoils soils, channel slopes, C&D landfill cover, and general site coverage, an application rate of 130 pounds per acre (lb/ac) nitrogen, 70 lb/ac potassium and 20 lbs/ac sulfur were applied. For Dud Hollow, phosphorus was added at a rate of 65 lbs/ac. Fertilized certifications are provided in Appendix B. The seed mix that was used is shown in Table 4-6. Documentation of seed and fertilization application are contained in Appendix B.

The Type 2D erosion control matting used on the channel slopes was the Greenfix CFS072R agricultural straw/coconut fiber erosion control blanket. This blanket is designed for erosion protection mulching and revegetation applications to limit the potential for sediment release on 2:1 unvegetated slopes with medium to heavy rainfall intensities and for medium flow channels. It is rated for a 2:1 slope and has netting on both sides. The product is rated for 18 to 24 months, and is naturally biodegradable. Details of the material are contained in Appendix B. Approximately 21,000 $yds^2$ of Type 2D blankets were placed on a smoothed and tracked channel slope that was prepared prior to hydro seeding with the long stick excavator and tracked with a CAT D-6. An anchor trench was excavated along the entire length of each side of the new channel to approximately one foot in depth. The blankets were stapled into the anchor trenches and the trenches backfilled and compacted. The blankets extended to and overlapped Type 3B blankets that covered the stream benches, as shown on Drawing/Figure 4-3. Blankets were stapled into place with steel 6-inch staples and shingled in a downstream direction. The erosion-control matting was placed to provide a stable seedbed for one to two growing seasons until vegetation can be established in 2011 and 2012.

The Type 3B erosion control blanket that was used on the channel benches was the Greenfix CF072RR coconut fiber erosion control blanket. This blanket is designed for erosion protection, channel lining and revegetation applications to limit the potential for sediment release on extreme 1:1 unvegetated slopes with high flow runoff conditions and for high flow channels. The blankets were anchored against the outside of the channel riprap prior to the bench construction. The product is rated for 36 months and is naturally biodegradable. Once the benches were constructed between the riprap and the channel slope, the benches were hydro seeded, then the blanket was laid over the bench and to a minimum elevation of 2 feet above each bench height elevation. Blankets were stapled into place with steel 6-inch staples and shingled in a downstream direction. Approximately 7,200 $yards^2$ of Type 3B blankets were placed in the channel.

## 4.15 Regulatory Oversight

IDEQ provided regulatory oversight inspections during significant phases of the Phase II remedial work. The IDEQ also had the responsibility to review Phase II construction and CQA documentation to confirm that the approved CQA plan was followed and that the Phase II work was constructed as specified in the design with approved modifications. Doug Tanner and Mark Jeffers of IDEQ performed some of the oversight inspections of construction activities. Inspections were also completed by the Forest Service on several occasions, and a final inspection of the channel before stream activation was made by Tom Bassista the IDWR on October 1, 2010. Inspections of the work were completed by the agencies on July 20, August 24 and October 6, 2010. GET and Nu-West provided bi-weekly reports and schedule updates (contained in Appendix D) to IDEQ that documented the Phase II work completed, problems encountered and resolutions, and projected work. Reports also included the project progress in percent complete and photographic documentation of the work completed to date.

## 4.16 Slurry Pit Cover Air Monitoring

During Phase II construction, air quality was monitored by GET using a VRAE 5-gas meter. The meter included the capability of both HCN and PH3 detection. Detection resolution for the VRAE probes were was 0.1 ppm for phosphine and 1 ppm for hydrogen cyanide. The meter was calibrated prior to use with the respective calibration span gasses.

Results of monitoring are presented in Appendix E (on disk only). In addition to monitoring test pits and excavation as part of the Phase II work IDEQ requested some monitoring of the slurry pit cap while the channel was being excavated. The slurry pit cover was monitored on six days during the period of channel excavation. These days included June 30, July 8, July 15, July 22, August 5, and August 25, 2010. These days were selected for monitoring based on weather conditions that included very little to no wind, and clear conditions. Monitoring was conducted by placing the probe monitor

within the armor on the slurry pit cover to near the soil cover at locations outside of the slurry pit anchor trench. Readings were obtained over a period of 20 seconds or more at each location. Each monitored location was taken approximately on 50-foot intervals along the anchor trench. Readings were also obtained from wells GT-2, GT-7 and GT-8 at 3 locations for each well. The weep hole was first measured for 20 seconds by inserting the probe into the unopened well. The space within the armor was next measured near the liner boot. A third location was obtained from within the 4-inch PVC well casing upon cap removal. No detections were made of HCN or PH3 during the 6 days of monitoring.

# 5.0 POST-CLOSURE MONITORING

## 5.1 General

Future site monitoring and inspection will be performed as required by the site O&M plan, provided as Appendix G to this document and the approved sampling and analysis plan. Figure 5-1 presents the monitoring and reporting schedule that would be expected for the first 5 years of the post-closure period through 2015. Any repairs that may be required by the O&M plan are not shown on this figure. Nu-West will be responsible for the establishment and maintenance of permanent seeding and reclamation. Maintenance activities performed by Nu-West will include repairing and reseeding eroded or damaged caps, slopes and other areas that were constructed as part of the remedy in accordance with the IDEQ approved site O&M Plan.

At of the completion of the project on October 23, 2010, approximately 5 acres were reseeded along the banks of the Phase II stream channel and approximately 5,200 linear feet of bench were reseeded, covered with erosion control blankets and planted with woody species. Woody species were planted on the benches in pre-drilled holes between October 21 and October 23, 2010. The trees were planted to provide long-term vegetated armoring against erosion. Willows and dogwood and alder trees and snowberry bushes from containerized stock were planted to promote vegetative diversity. Woody plants were planted following the frequencies recommended by published NRCS documents. Approximately fifty percent of the woody species planted were willows, with the remaining woody species consisting of dogwood, alder, and snowberry.

Another approximate 16 acres at the site were disturbed during the construction and were reclaimed with hydro seeding. These areas are outside of the channel areas as shown on Drawing/Figure 4-1 and include the three spoils areas that were removed from the channel, the C&D landfill and other disturbed areas. The hydro seeding and woody species planting will require another year or more of monitoring before the

success of the vegetation and plantings can be assessed. If reclaimed and seeded areas on the stream banks indicate that growth is not progressing, or woody species are not viable based on evaluations made during the routine inspections, Nu-West will take action to assess the growth medium and perform additional seeding of grasses and/or re-fertilization and planting additional woody species as necessary. One-year after the completion of construction activities, Nu-West will assess the condition of the planted trees in the channel and the condition of the reclaimed areas. Nu-West will replant woody species to replace the willows and other species that did not survive. The recommended frequency for maintaining woody species is every three feet on the outside of bends of the stream and every eight feet on the inside of bends and along straight sections. Additional woody species shall be planted if these distances are exceeded by a factor of two. Replanting will focus on the outside of channel curves where erosion is most likely. The replacement species may vary from the originally planted species depending on the success rates observed. Replacement plants will only be species native to Idaho that are suitable for this location (elevation, stream bank protection, and riparian habitat).

The 2:1 side slopes on the newly constructed channel will be monitored for erosion. During the channel construction, surface grading and construction of berms and windrows above the side slopes were placed to reduce the potential amount of runoff that would be concentrated at any particular point to side slopes and to the stream. Surface water runoff has been channeled towards culverts and riprap chute spillways to reduce the potential for bank erosion from runoff.

## 5.2 2010 Post-Construction Ground and Surface Water Monitoring

Figure 5-2 shows the progress of Georgetown Creek down the newly constructed stream channel. Flow rate into the creek was measured on October 4, 2010 at approximately 2.2 cfs, prior to the opening of the channel. The new stream segment was activated on October 6, 2010 in the early afternoon. By about 17:00 hrs on October 6, the stream had advanced to about station 14+00, or about 54 percent of the

total new stream channel length. By the following morning of October 7, the water advanced to about 18+50. On October 9, the water had advanced to approximately station 23+50, or about 88 percent of the new channel length. Flow coming into the channel was re-measured on October 18, 2010 and was estimated to be about 1.81 cfs. Water did not reach the end of the new channel until October 25 during a storm event. Following that storm event, the water leading edge of Georgetown Creek retreated back to about 24+00, or about 200 feet from the end of the new channel.

The fall 2010 creek discharge that averaged about 2 cfs was not of sufficient magnitude to advance water in the creek beyond the new channel. Loss of the creek water within the site through infiltration indicates substantial losses to the alluvium and bedrock. Water from the creek has progressed to an area that overlies the concealed contact with the Wells formation, an area where the losses from the channel exceed discharge into the new channel. Estimated losses to the bedrock and alluvium between October 6 and November 17, 2010 were in the range of about 156 acre feet of water.

As the result of stream loss on the site, water levels were monitored in the wells for about 5 weeks to observe impacts from stream losses. Water levels were measured in the wells on October 4, 2010 during the semiannual sampling event, two days before activating the new stream channel. Subsequent water level measurements were obtained on October 12, October 20, November 2, and November 17, 2010. Results of these water level changes based on the measurements are shown on Figure 5-3. This figure indicates that following the opening of the new stream channel, water levels upgradient of the site were unchanged, but ground water in on-site wells GT-2, GT-3 and bedrock well GT-7 rose between 17 and 20 feet in elevation before stabilizing. Wells GT-4, GT-5 and GT-8 water level elevations rose between 6 and 12 feet before stabilizing. Well GT-6 is now adjacent to a dry stream channel, and levels have dropped more than 4-1/2 feet, rendering the well nearly dry and indicating that the aquifer in the alluvium has lost most of the previous discharge that followed the gradient down canyon.

Bedrock water level elevations increased about 18 feet in well GT-7. Water levels measured in the GT-Deep well also likely rose, but the well had the production pump set and this precluded measurements until November, where water levels were about 3 feet higher than the elevation measured in the spring of 2010.

Figure 5-4 demonstrates potentiometric contours for the alluvial aquifer on October 12, 2010. Flow direction is generally south and southeasterly beneath the site with a slightly steeper gradient beneath the slurry pit area. Figure 5-5 shows potentiometric contours for the alluvial aquifer on November 17, 2010, when water levels had stabilized. Flow direction is similar to the October gradients with a slightly more southerly flow direction, more typical of the gradients noted in the higher water season in the spring. Based on the cross sectional interpretation shown on Figure 5-6 which shows the ground water surface for both October 12 and November 17, the stream is a gaining reach to about the confluence with Syncline Spring, but a losing reach from about Syncline Spring to the south. Once the creek water enters the reach over the Wells formation, the water table surface elevation drops as the alluvial aquifer thins out.

## 5.3 Long-Term Operation, Maintenance, and Monitoring

Monitoring activities during the post-closure period will include both ground and surface water monitoring, and monitoring of the covers and reclamation work. Appendix G to this document addresses the operation and maintenance (O&M), post-closure care, and monitoring activities for both phases of remedial construction completion work at the site. The O&M plan is a stand-alone document that addresses ground and surface water monitoring, monitoring of the caps at the clarifier, furnace, slurry pit, ore pile and monitoring of the CMP bypass stream channel and side drainages. The O&M plan addresses site inspections and provides a checklist for routine monitoring for the site that includes visual observations, survey measurement and observations, cap monitoring, inspection of drainages, and observations of reclamation progress. The plan specifies the frequencies of those inspections. The O&M document identifies

triggers for corrective actions and presents descriptions of normal O&M, potential problems, and reporting. Specifically, the plan includes:

- Normal Operation and Maintenance - Long-term maintenance of the remedial actions consisting of inspections and correction and maintenance of any problems identified in the inspections. Maintenance activities will be initiated if a problem is identified during a routine inspection or monitoring activity, or at any time when problems are identified that present an immediate threat to human health and the environment. The completed remedial actions area will be inspected immediately after snowmelt in 2011, then on a quarterly basis 2011 and 2012. This schedule will be modified to semiannual with the concurrence of IDEQ following the first 2-year period.

- Assessment of Potential Problems - Potential foreseeable problems that could be encountered are discussed, including 1) obstructed stream flows; 2) failure of riprap or undercutting in channels; 3) failure of conveyances or BMPs; 4) failure or partial failure of slopes, erosion control blankets; 5) failure of reclamation work seeding including lack of regrowth or nonviable woody species plantings; 6) occlusion of flow in culverts; 7) the occurrence of plants with deep tap roots or trees that become established on the slurry pit or the clarifier or phosphorus ore pile covers; 8) erosion of the soil covers or armor, berms, slopes or riprap; 9) settling of the slurry pit or the clarifier covers, and; 10) the presence of burrowing animals.

- Safety requirements for inspection activities to address the exposure during the routine inspections and personnel protective equipment requirements.

- Routine and emergency reporting requirements.

- Personnel and training requirements.

- Record keeping including the quarterly inspections, and other inspections required including records of the monitoring activities and maintenance records.

### 5.3.1 Ground Water Monitoring

Ground water samples will be collected and analyzed semi-annually from selected wells. This monitoring activity is described in the approved Sampling and Analysis Plan (SAP) for the Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho and the Quality Assurance Project Plan (GET, April 19, 2004). Monitor wells that will be sampled include GT-1, GT-2, GT-3, GT-4, GT-5, GT-6, GT-7 and GT-8, shown on

Figure 1-4. Well GT-7 will be sampled twice in 2011 and at least annually afterwards for a minimum of 4 years due to the significant changes in the site water levels that occurred following the activation of the new stream channel in 2010. Following this period, Nu-West and IDEQ will review the analytical results of well GT-7 to determine whether further sampling of this well is warranted. Analytical results from well GT-7 will be compared to pre-RAP results to assess changes in the water quality in the bedrock aquifer

Table 5-1 presents the list of ground water analytes. Ground water monitoring will continue on a semi-annual basis throughout the post-closure monitoring period as shown on Figure 5-1 to evaluate the impacts to ground water resulting from the completed actions. Ground water monitoring will continue through the remedial action period for a minimum of five years into the post-closure period (through 2015) on a semi-annual basis. At that time, IDEQ will perform a 5-year review of the collected data to determine if monitoring frequencies or the analyte list can be modified.

### 5.3.2 Surface Water Monitoring

Stream flow will be monitored on a semiannual basis (spring and fall) at locations above the newly constructed channel (GTSW-1), between the sediment pond and lower CMP crossing outlet (GTSW-2), and at a location near the southern property boundary (GTSW-3) below the constructed channel segment. Tributary side streams will also be observed for flow rates, culvert functionality and for any obstructions in culverts.

Surface water samples will be collected and analyzed semi-annually, spring and fall. Table 5-1 presents the list of surface water analytes. This monitoring activity is described in the approved Sampling and Analysis Plan (SAP) for the Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho and the Quality Assurance Project Plan (GET, April 19, 2004).

Surface water monitoring, which will include sample collection and flow measurement, will occur at sites GTSW-1, GTSW-2, GTSW-3, GTSW-4, GTSW-5 and GTSW-6, shown on Figure 1-4. Two of these sites will be relocated to new monitoring sites as the result of the channel and sediment pond construction. Sample site GTSW-2 will be relocated to N:315832 E: 899839 to assess change in flow and any impact to surface water from the site. This location is south of the lower crossing outlet but above the sediment pond culvert. Site GTSW-6 will be moved to the sediment pond culvert outlet. Flow measurements and samples will be obtained from the end of the culvert.

Surface water sampling will continue through the remedial action period for a minimum of five years into the post-closure period on a semi-annual basis as shown on Figure 5-1. At that time, IDEQ will perform a 5-year review of the collected data to determine if monitoring frequencies or the analyte list can be modified.

# 6.0 CERTIFICATION OF PHASE II REMEDY COMPLETION

Phase II construction activities that constitute the requirements of the Consent Judgment, Part V.13. E parts 1 and 2 have been completed. The Phase II work was completed between June 10 and October 23, 2010 in compliance with the final design IFC drawings and the Remedial Action Plan Phase II Design Plans and Specifications (Norwest, February 2010) Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho for Nu-West Industries, Inc. and Nu-West Mining, Inc.

After a complete review and reasonable inquiry about the work, including the certifying engineer site inspections and documentation associated with the project, the project certifying engineer, Paul Kos, P.E. of Idaho and staff member of the Norwest Corporation, has provided a statement of certification at the front of this document. The statement certifies that Phase II construction activities were completed in such a manner as to meet the requirements of the IFC drawings and the Remedial Action Plan Phase II Design Plans and Specifications (Norwest, February 2010) Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho for Nu-West Industries, Inc. and Nu-West Mining, Inc. that was approved by IDEQ in early March 2010. Nu-West considers these Phase II remedial actions to be complete and eligible to be subject to termination of the corrective action process and eligible for site closeout as applicable to RCRA.

# 7.0 CONSTRUCTION COMPLETION AND LONG-TERM RESPONSE ACTIONS

## 7.1 General

Remaining actions to be completed as required by the Final RAP include quarterly monitoring of the site remedy, semiannual ground and surface water monitoring and annual reporting. The environmental covenant for the site and the USFS road easement have been submitted to the IDEQ and the USFS, respectively.

Completion of the Phase II remedial actions described within this report and certification of the remedy completion qualifies the Central Farmers Plant site in Georgetown Canyon to satisfy the requirements of the Consent Judgment, and the facility can be considered for site closeout with the expectation that no further cleanup will be required. According to the Consent Judgment, Nu-West may initiate a petition for termination of the Consent Judgment in accordance with Paragraph XII, Termination. Remedial construction at a RCRA site can be considered completed when physical construction is complete for the entire site, the final remedial actions and corrected measures have been implemented in accordance with the design plan and specifications and that Certification of Remedy Completion has been accomplished.

As requested by the IDEQ, a 5-year post-closure action for monitoring of ground and surface water is required to assess the long-term effectiveness of the completed Phase II construction. Monitoring and maintenance in accordance with the O&M plan (attached, Appendix G) will also be required to assure the construction completion criteria for the Phase II work. This five-year period of monitoring will extend through the fall of 2015. Construction Completion criteria apply when physical construction of the remedial actions defined in the RAP is complete, whether or not final cleanup levels have been achieved. EPA has issued a Guidance on Completion of Corrective Action Activities at RCRA Facilities (EPA, 2007), which describes completion of remedies with controls in place. This guidance document provides guidance to EPA Regions and States involved in RCRA corrective action cleanups. It also provides guidance to the

public and the regulated community on the implementation of institutional controls as part of a cleanup decision (EPA, 2007).

As described in the guidance, a "Complete with Controls" determination is appropriate where a full set of corrective measures has been defined, the facility has completed construction and installation of all required remedial actions, and site-specific media cleanup objectives have been met. When all site criteria are satisfied, and all that remains to ensure that the remedy remains protective of human health and the environment is performance of required operation, maintenance, and monitoring actions, and/or compliance with and maintenance of any institutional controls, then a "complete with controls" determination can be made for the site. Specifically, EPA has indicated that "it is appropriate to make a Corrective Action Complete with Controls determination at a facility where (among other things) all that remains is performance of required operation and maintenance and monitoring actions, and/or compliance with and maintenance of any institutional controls. The Corrective Action Complete with Controls determination provides the owner with recognition that protection of human health and the environment has been achieved, and will continue as long as the necessary operation and maintenance actions are performed, and any institutional controls (site environmental covenant) are maintained and complied with" (EPA, 2007).

## 7.2 Long-Term Post-Closure Financial Cost Estimate

On July 20, 2010, the IDEQ requested that Nu-West provide a list of facilities at the site that would require on-going monitoring and maintenance such that costs for these activities could be estimated and allocated into the future over the expected life of the facility. IDEQ has also requested Nu-West to provide for financial assurance for those long-term costs by one of the mechanisms provided under 40 C.F.R. § 265.146.

For the purposes of estimating O&M costs for the Central Farmers Plant site, Table 7-1 provides estimates for monitoring, inspection and maintenance of the facility for 30 years to ensure that the remedial action clean up remains safe and effective. Annual

estimates are based on assumed rates presented in Table 7-2. Table 7-2 details the generalized unit costs for the labor rates, equipment rates, materials and other costs that could be required to complete the anticipated level of work. These estimated costs assume a third party to carry out all closure and post-closure activity in the complete absence of Nu-West. If the activities in fact are conducted by or for Nu-West, as expected, the actual costs will be lower. The cost estimate is based on site-specific activities required by the post-closure O&M care plan. Initial O&M costs are expected to be larger because site vegetation and tree plantings are becoming established and effects from erosion are projected to have more substantial impacts to the remedy during this initial period.

The post-closure cost estimate is calculated by summing the projected annual post-closure cost estimates over the 30-year period. An annual inflation rate of 2.63 percent, based on the January 2009 to January 2010 period, has been applied to known activities such as monitoring and reporting categories as well as to unspecified site repairs or maintenance that are projected to potentially be required after 2015. Post-closure activities included in the cost estimate are monitoring (ground water, surface water), sampling and analytical costs, maintenance (preventive/corrective), cover maintenance (reseeding, erosion control, etc.) and administration and labor costs. For the next 30-year period, costs for O&M at the site are estimated to be approximately $1.78 million dollars. These costs overestimate the probable value, because costs of monitoring are calculated into the estimate beyond 2015 on a semiannual basis. Monitoring and reporting expenditures beyond 2015 account for 78 percent of the total estimated 30-year cost. Cost estimates are provided in Table 7-1, and shown by year in Figure 7-1. These costs assume that maintenance on the Phase II construction will incrementally decrease over the initial 3-year period as vegetation becomes established. These costs are estimates and may not accurately reflect the O&M work that could be required to maintain the site in accordance with the plan.

## 7.3 Long-Term Post-Closure Cost Financial Assurance

Upon IDEQ's approval of the above cost estimates, Nu-West will arrange and obtain IDEQ approval of a mechanism for financial assurance of such costs, using the alternatives provided under 40 C.F.R. §265.146. Upon completion of certain tasks, or upon completion of tasks during certain time periods, covered by such cost estimates and related financial assurance, Nu-West may periodically request that such financial assurance be reduced by the extent of such corresponding costs estimates, or upon completion of all covered work, terminated and discontinued. Upon confirmation by IDEQ that the work in question has been completed, such reduction or termination will be approved.

# 7.0 REFERENCES

GET, April 19, 2004 Site Investigation Sample and Analysis Plan - Central Farmer's Fertilizer Facility, Georgetown Canyon, Idaho, Prepared for Nu-West Industries and Nu-West Mining, Inc. April 19, 2004.

GET, 2005, 2005 Site Investigation Sample and Analysis Work Plan - Central Farmer's Fertilizer Facility, Georgetown Canyon, Idaho, Prepared for Nu-West Industries and Nu-West Mining, Inc. June 25, 2005.

GET, 2006, Draft Final Site Investigation Report, Central Farmer's Fertilizer Facility, Georgetown Canyon, Idaho, Prepared for Nu-West Industries and Nu-West Mining, Inc. August 16, 2006.

GET, 2009, Draft Final Remedial Action Plan, Central Farmer's Fertilizer Facility, Georgetown Canyon, Idaho, Prepared for Nu-West Industries and Nu-West Mining, Inc. May 8, 2009.

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IDEQ, 2007, Draft Remedial Action Plan, Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho, Nu-West Industries, Inc. and Nu-West Mining, Inc Letter from Doug Tanner to Matt Smith of Agrium, dated November 7, 2007.

IDEQ, 2008, Georgetown Canyon RAP, Letter from Mike McVay to Doug Tanner , provided to Nu-West dated January 2, 2008.

IDEQ, 2010, Draft Idaho Risk Evaluation Manual for Petroleum Releases (June 29, 2010)

IDEQ, 2010, Remedial Action Plan Phase II Draft Final Plans and Central Farmer's Fertilizer Facility, Georgetown Canyon, Idaho, Prepared for Nu-West Industries and Nu-West Mining, Inc., approval letter from Mark Jeffers (IDEQ) to Mitch Hart (Nu-West, dated March 10, 2010.

Norwest, Remedial Action Plan Phase II Draft Final Plans and Central Farmer's Fertilizer Facility, Georgetown Canyon, Idaho, Prepared for Nu-West Industries and Nu-West Mining, Inc. February 18, 2010.

TRC, 2008, Hydrologic and Hydraulic Report - Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho – Nu-West Industries Inc. and Nu-West Mining Inc., February 6, 2008

U.S. Environmental Protection Agency, 2004 EPA Office of Solid and Hazardous Waste RCRA Corrective Action News, A record of Success Final Completion Guidance, March 2004.

U.S. Environmental Protection Agency, 2007 EPA Memorandum Ensuring Reliable Institutional Controls at RCRA Facilities, June 14, 2007.

USGS, 2000, A History of Phosphate Mining in Southeast Idaho, Open File Report 00-425, Version 1.0

TABLE 4-1
PHASE II TEST PIT SUMMARY

| Test Pit number | Date | Depth | Stability | Geology | Water | Comments |
|---|---|---|---|---|---|---|
| TP-101 | 6/18/2010 | 16 | Caving to 5.5 | silt,silty gravel | wet @5.5 ft | no water , but very saturated and caving |
| TP-102 | 6/18/2010 | 15.5 | stable | silty clay, clayey gravel, silty gravel | moist, no water | dry pit, saturated clays |
| TP-103 | 6/16/2010 to 6/17/10 | 10 | unstable | silt, gravelly clay, debris, slag | water level 2 ft overnight | intercept CMP, top is 6960.9 ft |
| TP-104 | 6/17/2010 | 21 | caving to 5 ft | silty gravel, sandy gravel, cobbles and boulders | no water, but saturated | unstable |
| TP-105 | 6/17/2010 | 19.5 | caving from 8 ft to bottom | silty gravel, sandy gravel, cobbles and boulders | dry | unstable |
| TP-106 | 6/17/2010 | 16.5 | stable | silty gravel, clayey gravel | some water | water weeping in from about 6 ft |
| TP-107 | not done | na | na | na | na | sited on concrete floor with lots of I beams, footings |
| TP-108 | 6/17/2010 | 16.5 | stable | silty gravel, clayey gravel | dry | water weeping in from about 11.5 ft. Pit sited 5 ft north of location due to footings |
| TP-109 | 6/17/2010 | 14 | very unstable | Silty gravel | very wet | water coming in as fast as excavation, within building foundation adjacent to wall |
| TP-110 | 6/14/10 to 6/16/10 | 30 | stable | silty and sandy gravel | dry, damp | never found CMP, appears beneath excavation |
| TP-111 | 6/17/2010 | 21 | stable | silty gravel | dry, no seeps | stable |
| TP-112 | 6/18/2010 | 19 | stable | clayey gravel, silty gravel, silty clay | dry | stable, adjacent to foundations |
| TP-113 | 6/22/2010 | 25 | stable | silty sand, gravel, cobbles and boulders | dry | stable, top of CMP is 6927.42 final N:315485.2 E:899744.70 |
| TP-114 | not done | na | na | na | na | Not needed |
| TP-115 | 6/22/2010 | 25 | stable | silty sand, gravel, cobbles and boulders | dry | stable, top of CMP is 6942.75 final N:315941.68 E:899835.86 |

**TABLE 4-2**
**IDAHO RISK EVALUATION MANUAL FOR PETROLEUM RELEASES**
**SCREENING LEVELS PROTECTIVE OF GROUND WATER ***

| Constituent | Screening Level for Groundwater Protection | *Unit* | Pile 1 | | Pile 2 | | Pile 4 | | Pile 6 | | Pile 10 | | Pile 3-5-7 | | Pile 3-5-7 No2 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | 3400 | *ug/Kg* | ND | | 400 | J | ND | | ND | | ND | | ND | | ND | |
| Benzo(b)fluoranthene | 750 | *ug/Kg* | ND | | 500 | J | ND | | ND | | ND | | ND | | ND | |
| Chrysene | 33000 | *ug/Kg* | ND | | 500 | J | ND | | ND | | ND | | ND | | ND | |
| Fluoranthene | 364000 | *ug/Kg* | ND | | 700 | J | ND | | ND | | 70 | J | ND | | ND | |
| Naphthalene | 5200 | *ug/Kg* | 6 | J | 3 | J | ND | | ND | | ND | | ND | | ND | |
| Pyrene | 359000 | *ug/Kg* | ND | | 1000 | J | ND | | ND | | ND | | ND | | ND | |

*(IDEQ June 29, 2010)

**TABLE 4-3**
**ADDITIONAL ORGANIC COMPOUNDS DETECTED**
**IN SOILS PILES**

| Constituent | Unit | Pile 1 | | Pile 2 | | Pile 4 | | Pile 6 | | Pile 10 | | Pile 3-5-7 | | Pile 3-5-7 No2 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28, Diesel range | mg/Kg | 9 | J | 18 | J | 7 | J | 96 | | 6 | J | 14 | J | 14 | J |
| 1,2,3-Trichlorobenzene | ug/Kg | 5 | J | ND | | ND | | ND | | ND | | ND | | ND | |
| 1,2,4-Trichlorobenzene | ug/Kg | 4 | J | ND | | ND | | ND | | ND | | ND | | ND | |
| Methylene Chloride | ug/Kg | 5 | J | ND | | ND | | ND | | ND | | 4 | J | ND | |
| Phenanthrene | ug/Kg | ND | | 800 | J | ND | | ND | | 80 | J | ND | | ND | |

**TABLE 4-4**
**ORGANIC COMPOUNDS DETECTED**
**IN SOILS PILES COMPARED TO EPA REGION IX REGIONAL**
**SCREENING LEVEL (RSL) TABLE FOR INDUSTRIAL SOILS**

| Constituent | Screening level for Carcinogenic Target Risk = 1E-6 | Screen Level for Noncancer Hazard Index = 1 | Units |
|---|---|---|---|
| 1,2,3-Trichlorobenzene | | 4.9E+02 | mg/kg |
| 1,2,4-Trichlorobenzene | 9.9E+01 | 2.7E+02 | mg/kg |
| Methylene Chloride | 5.3E+01 | 9.2E+03 | mg/kg |

TABLE 4-5
STATISTICAL SUMMARY OF DRAINFIELD SOILS, SURFACE SOILS,
PRELIMINARY REMEDIATION GOAL CONCENTRATIONS

| ANALYTE | Units | CF Drainfield 1 | CF Drainfield 2 | SI Min | SI Max | SI Mean | SI Std. Dev. | Preliminary Remediation Goals (PRGs) Residential Soil | Preliminary Remediation Goals (PRGs) Industrial Soil |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum, total (3050) | mg/kg | 16,000 | 16,600 | 4,620 | 30,200 | 18,801 | 5,563 | 76,000 | 100,000 |
| Antimony, total (3050) | mg/kg | 0.3 | 0.3 | 0.1 | 5.9 | 1.55 | 1.68 | 31 | 410 |
| Arsenic, total (3050) | mg/kg | 6.1 | 6.6 | 3 | 10.9 | 6.89 | 2.38 | 0.39 | 1.6 |
| Barium, total (3050) | mg/kg | 83.2 | 86.8 | 19.5 | 189 | 101.0 | 36.2 | 5400 | 67,000 |
| Beryllium, total (3050) | mg/kg | 0.8 | 0.8 | 0.2 | 2 | 0.9 | 0.4 | 150 | 1,900 |
| Cadmium, total (3050) | mg/kg | 2.7 | 3.2 | 0.6 | 40 | 11.3 | 11.5 | 37 | 450 |
| Calcium, total (3050) | mg/kg | 50,200 | 51,000 | 5,000 | 216,000 | 93,768 | 69,773 | | |
| Chromium, total (3050) | mg/kg | 54 | 59 | 16 | 440 | 198 | 153 | 210 | 450 |
| Copper, total (3050) | mg/kg | 18 | 20 | 5 | 120 | 39 | 25 | 3,100 | 41,000 |
| Iron, total (3050) | mg/kg | 17,200 | 18,400 | 6,230 | 27,500 | 15,589 | 6,508 | 23,000 | 100,000 |
| Lead, total (3050) | mg/kg | 11.4 | 12 | 4.67 | 188 | 42.0 | 45.9 | 400 | 800 |
| Magnesium, total (3050) | mg/kg | 13500 | 13400 | 3,600 | 20,200 | 9,821 | 4,952 | | |
| Manganese, total (3050) | mg/kg | 858 | 929 | 138 | 1,950 | 833 | 517 | 1800 | 19,000 |
| Mercury, total | mg/kg | 0.028 | 0.0349 | 0.04 | 0.51 | 0.24 | 0.16 | 23 | 310 |
| Molybdenum, total (3050) | mg/kg | 4 | 4 | 1 | 12 | 5 | 4 | 390 | 5,100 |
| Nickel, total (3050) | mg/kg | 36 | 38 | 12 | 100 | 48 | 25 | 1600 | 20,000 |
| pH, Saturated Paste | units | 8.1 | 8 | 6.2 | 8.4 | 7.7 | 0.5 | | |
| Phosphorus, total | percent | 0.511 | 0.581 | 0.072 | 26.1 | 4 | 6 | white phosphorous only | white phosphorous only |
| Potassium, total (3050) | pCi/g | 3820 | 4110 | 1,210 | 10,400 | 5,839 | 2,117 | | |
| Selenium, total (3050) | mg/kg | 1.2 | 2.3 | 1.5 | 19.1 | 7.9 | 6.4 | 390 | 5,100 |
| Silver, total (3050) | mg/kg | 0.32 | 0.44 | 0.07 | 25.9 | 3.8 | 6.3 | 390 | 5,100 |
| Sodium, total (3050) | pCi/g | 210 | 210 | 70 | 2,220 | 674 | 663 | | |
| Thallium, total (3050) | mg/kg | 0.29 | 0.33 | 0.2 | 7.3 | 1 | 2 | 5.2 | 67 |
| Vanadium, total (3050) | mg/kg | 54.7 | 62 | 15.7 | 534 | 194.9 | 172.3 | 78 | 1,000 |
| Zinc, total (3050) | percent | 158 | 166 | 50 | 3,150 | 568 | 885 | 23,000 | 100,000 |

## TABLE 4-6

## RECLAMATION SEED MIXTURE

| Species | Common Name | Bulk Pounds per Acre | % of Mix | Description |
|---|---|---|---|---|
| **Grasses** | | | | |
| *Bromus marginatus* | Mountain Brome | 7 | 14% | Cool season, short lived perennial bunchgrass, adapted to wide spectrum of soils, Establishes quickly on disturbed sites. Recommended for riparian zones. |
| *Pascopyrum smithii* | Western Wheatgrass | 8 | 16% | Cool season, long-lived, sod-forming perennial, adapted to wide spectrum of soils, Recommended for revegetation and erosion control. Recommended for riparian zones. |
| *Phleum pratense* | Timothy | 4 | 8% | Rapidly-developing, short-lived, perennial bunchgrass, adapted to wide spectrum of soils. Winterhardy and persistent. Recommended for riparian zones. |
| *Elymus cinereus* | Basin Wildrye | 9 | 18% | Hardy, robust, long-lived, native, perennial bunch-grass, adapted to wide spectrum of soils, Recommended for reclamation. Recommended for riparian zones. |
| *Elymus lanceolatus* | Streambank Wheatgrass | 8 | 16% | Drought tolerant, rapidly-establishing, long-lived perennial sod-forming bunchgrass well adapted to stabilizing disturbed soils. Ideal for reclamation areas. |
| *Festuca arundinacea* | Tall Fescue | 8 | 16% | Deep-rooted, cool-season, perennial bunchgrass, adapted to wide spectrum of soils. Useful for erosion control along waterways. Recommended for riparian zones. |
| **Total Grasses** | | ***44*** | 92% | |
| **Wildflowers/Forbs** | | | | |
| *Trifolium Fragiferum* | Strawberry Clover | 6 | 12% | Low-creeping perennial forb with creeping stems. Recommended for reclamation areas. Recommended for riparian zones. |
| **Total Wildflowers/Forbs** | | ***6*** | 12% | |
| **Total Grasses and Wildflowers/Forbs** | | ***50*** | 100% | |

TABLE 4-7

WEIR, BENCH AND PLUNGE POOL SURVEY CONTROL POINTS

| Weir | Low flow notch | | | Pool bottom-deepest point | | | Pool outlet/start 1.4% channel | | | East weir abutment | | | East weir bench edge | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Easting | Northing | Elev | Easting | Northing | Elev | Easting | Northing | Elev | Easting | Northing | Elev | Easting | Northing | Elev |
| 14+50 | 899810.1 | 316402.9 | 6949.12 | 899809 | 316397 | 6946.12 | 899808 | 316387 | 6948.12 | 899816 | 316396 | 6951.87 | 899813 | 316396 | 6951.87 |
| 14+90 | 899804.0 | 316363.3 | 6947.79 | 899803 | 316357 | 6944.79 | 899802 | 316348 | 6946.79 | 899810 | 316356 | 6950.54 | 899807 | 316357 | 6950.54 |
| 15+30 | 899797.9 | 316324.0 | 6946.46 | 899797 | 316318 | 6943.46 | 899795 | 316308 | 6945.46 | 899804 | 316317 | 6949.21 | 899801 | 316317 | 6949.21 |
| 15+70 | 899791.8 | 316284.3 | 6945.12 | 899791 | 316278 | 6942.12 | 899789 | 316268 | 6944.12 | 899798 | 316277 | 6947.87 | 899795 | 316278 | 6947.87 |
| 16+10 | 899785.7 | 316245.1 | 6943.79 | 899785 | 316239 | 6940.79 | 899783 | 316229 | 6942.79 | 899792 | 316238 | 6946.54 | 899789 | 316239 | 6946.54 |
| 16+50 | 899779.6 | 316205.5 | 6942.46 | 899779 | 316200 | 6939.46 | 899777 | 316190 | 6941.46 | 899786 | 316199 | 6945.21 | 899783 | 316199 | 6945.21 |
| 16+90 | 899773.5 | 316165.8 | 6941.13 | 899773 | 316160 | 6938.13 | 899771 | 316150 | 6940.13 | 899780 | 316159 | 6943.88 | 899777 | 316159 | 6943.88 |
| 17+30 | 899767.7 | 316126.3 | 6939.80 | 899767 | 316120 | 6936.80 | 899767 | 316110 | 6938.80 | 899774 | 316120 | 6942.55 | 899771 | 316120 | 6942.55 |
| 17+70 | 899766.1 | 316086.3 | 6938.46 | 899766 | 316080 | 6935.46 | 899767 | 316070 | 6937.46 | 899773 | 316081 | 6941.21 | 899770 | 316081 | 6941.21 |
| 18+00 | 899768.1 | 316056.4 | 6937.27 | 899769 | 316050 | 6934.67 | 899771 | 316041 | 6936.67 | 899776 | 316052 | 6940.42 | 899773 | 316051 | 6940.42 |
| 18+84 | 899789.6 | 315975.5 | 6935.71 | 899792 | 315970 | 6932.71 | 899796 | 315961 | 6934.71 | 899798 | 315973 | 6938.46 | 899796 | 315972 | 6938.46 |
| 19+68 | 899825.5 | 315899.6 | 6933.76 | 899827 | 315894 | 6930.76 | 899831 | 315884 | 6932.76 | 899834 | 315896 | 6936.51 | 899831 | 315895 | 6936.51 |
| 20+52 | 899838.7 | 315817.2 | 6931.81 | 899838 | 315811 | 6928.81 | 899837 | 315801 | 6930.81 | 899845 | 315811 | 6934.56 | 899842 | 315811 | 6934.56 |
| 21+36 | 899817.4 | 315736.1 | 6929.86 | 899815 | 315731 | 6926.86 | 899810 | 315722 | 6928.86 | 899821 | 315728 | 6932.61 | 899818 | 315729 | 6932.61 |
| 22+20 | 899781.3 | 315660.8 | 6927.92 | 899779 | 315655 | 6924.92 | 899774 | 315646 | 6926.92 | 899785 | 315652 | 6930.67 | 899782 | 315654 | 6930.67 |
| 23+04 | 899748.2 | 315583.7 | 6925.97 | 899746 | 315578 | 6922.97 | 899743 | 315568 | 6924.97 | 899753 | 315576 | 6928.72 | 899750 | 315577 | 6928.72 |
| 23+88 | 899728.7 | 315502.1 | 6924.02 | 899728 | 315496 | 6921.02 | 899727 | 315486 | 6923.02 | 899735 | 315495 | 6926.77 | 899732 | 315496 | 6926.77 |
| 24+72 | 899721.4 | 315418.4 | 6922.07 | 899721 | 315412 | 6919.07 | 899720 | 315402 | 6921.07 | 899728 | 315412 | 6924.82 | 899725 | 315412 | 6924.82 |
| 25+56 | 899715.1 | 315334.7 | 6920.12 | 899715 | 315329 | 6917.12 | 899714 | 315319 | 6919.12 | 899722 | 315328 | 6922.87 | 899719 | 315328 | 6922.87 |

TABLE 4-7

WEIR, BENCH AND PLUNGE POOL SURVEY CONTROL POINTS

| | East weir low/upstream edge | | | West weir abutment | | | West weir bench edge | | | West weir low/upstream edge | | | Outlet East Bench Upslope | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Weir** | **Easting** | **Northing** | **Elev** | **Easting** | **Northing** | **Elev** | **Easting** | **Northing** | **Elev** | **Easting** | **Northing** | **Elev** | **Easting** | **Northing** | **Elev** |
| 14+50 | 899812 | 316403 | 6949.37 | 899802 | 316398 | 6951.87 | 899805 | 316398 | 6951.87 | 899809 | 316403 | 6949.37 | 899815 | 316386 | 6950.12 |
| 14+90 | 899805 | 316363 | 6948.04 | 899796 | 316358 | 6950.54 | 899799 | 316358 | 6950.54 | 899803 | 316364 | 6948.04 | 899808 | 316346 | 6948.79 |
| 15+30 | 899799 | 316324 | 6946.71 | 899790 | 316319 | 6949.21 | 899793 | 316319 | 6949.21 | 899796 | 316324 | 6946.71 | 899802 | 316307 | 6947.46 |
| 15+70 | 899793 | 316284 | 6945.37 | 899784 | 316279 | 6947.87 | 899787 | 316279 | 6947.87 | 899790 | 316285 | 6945.37 | 899796 | 316267 | 6946.12 |
| 16+10 | 899787 | 316245 | 6944.04 | 899778 | 316240 | 6946.54 | 899781 | 316240 | 6946.54 | 899784 | 316245 | 6944.04 | 899790 | 316228 | 6944.79 |
| 16+50 | 899781 | 316205 | 6942.71 | 899772 | 316201 | 6945.21 | 899775 | 316200 | 6945.21 | 899778 | 316206 | 6942.71 | 899784 | 316189 | 6943.46 |
| 16+90 | 899775 | 316166 | 6941.38 | 899766 | 316161 | 6943.88 | 899769 | 316161 | 6943.88 | 899772 | 316166 | 6941.38 | 899778 | 316149 | 6942.13 |
| 17+30 | 899769 | 316126 | 6940.05 | 899760 | 316121 | 6942.55 | 899763 | 316121 | 6942.55 | 899766 | 316126 | 6940.05 | 899774 | 316110 | 6940.80 |
| 17+70 | 899768 | 316086 | 6938.71 | 899759 | 316080 | 6941.21 | 899762 | 316080 | 6941.21 | 899765 | 316086 | 6938.71 | 899774 | 316071 | 6939.46 |
| 18+00 | 899770 | 316057 | 6937.92 | 899762 | 316049 | 6940.42 | 899765 | 316050 | 6940.42 | 899767 | 316056 | 6937.92 | 899777 | 316042 | 6938.67 |
| 18+84 | 899791 | 315976 | 6935.96 | 899786 | 315967 | 6938.46 | 899788 | 315968 | 6938.46 | 899788 | 315975 | 6935.96 | 899803 | 315964 | 6936.71 |
| 19+68 | 899827 | 315900 | 6934.01 | 899821 | 315892 | 6936.51 | 899824 | 315893 | 6936.51 | 899824 | 315899 | 6934.01 | 899837 | 315887 | 6934.76 |
| 20+52 | 899840 | 315817 | 6932.06 | 899831 | 315812 | 6934.56 | 899834 | 315812 | 6934.56 | 899837 | 315817 | 6932.06 | 899844 | 315801 | 6932.81 |
| 21+36 | 899819 | 315735 | 6930.11 | 899808 | 315734 | 6932.61 | 899811 | 315732 | 6932.61 | 899816 | 315737 | 6930.11 | 899817 | 315719 | 6930.86 |
| 22+20 | 899783 | 315660 | 6928.17 | 899772 | 315658 | 6930.67 | 899775 | 315657 | 6930.67 | 899780 | 315661 | 6928.17 | 899781 | 315643 | 6928.92 |
| 23+04 | 899750 | 315583 | 6926.22 | 899740 | 315580 | 6928.72 | 899743 | 315579 | 6928.72 | 899747 | 315584 | 6926.22 | 899750 | 315566 | 6926.97 |
| 23+88 | 899730 | 315502 | 6924.27 | 899721 | 315497 | 6926.77 | 899724 | 315497 | 6926.77 | 899727 | 315502 | 6924.27 | 899734 | 315485 | 6925.02 |
| 24+72 | 899723 | 315418 | 6922.32 | 899714 | 315413 | 6924.82 | 899717 | 315413 | 6924.82 | 899720 | 315419 | 6922.32 | 899727 | 315402 | 6923.07 |
| 25+56 | 899717 | 315335 | 6920.37 | 899708 | 315329 | 6922.87 | 899711 | 315329 | 6922.87 | 899714 | 315335 | 6920.37 | 899721 | 315318 | 6921.12 |

TABLE 4-7
WEIR, BENCH AND PLUNGE POOL SURVEY CONTROL POINTS

| | Outlet East Bench downslope | | | Outlet West Bench Upslope | | | Outlet West Bench downslope | | |
|---|---|---|---|---|---|---|---|---|---|
| **Weir** | **Easting** | **Northing** | **Elev** | **Easting** | **Northing** | **Elev** | **Easting** | **Northing** | **Elev** |
| 14+50 | 899812 | 316386 | 6950.12 | 899800.7 | 316388.1 | 6950.12 | 899803.7 | 316387.7 | 6950.12 |
| 14+90 | 899806 | 316347 | 6948.79 | 899794.6 | 316348.6 | 6948.79 | 899797.6 | 316348.1 | 6948.79 |
| 15+30 | 899799 | 316308 | 6947.46 | 899788.5 | 316309.2 | 6947.46 | 899791.5 | 316308.8 | 6947.46 |
| 15+70 | 899793 | 316268 | 6946.12 | 899782.4 | 316269.5 | 6946.12 | 899785.4 | 316269.1 | 6946.12 |
| 16+10 | 899787 | 316229 | 6944.79 | 899776.4 | 316230.3 | 6944.79 | 899779.3 | 316229.9 | 6944.79 |
| 16+50 | 899781 | 316189 | 6943.46 | 899770.3 | 316190.8 | 6943.46 | 899773.2 | 316190.3 | 6943.46 |
| 16+90 | 899775 | 316149 | 6942.13 | 899764.2 | 316151.1 | 6942.13 | 899767.1 | 316150.6 | 6942.13 |
| 17+30 | 899771 | 316110 | 6940.80 | 899759.6 | 316110.8 | 6940.80 | 899762.6 | 316110.6 | 6940.80 |
| 17+70 | 899771 | 316071 | 6939.46 | 899759.9 | 316070 | 6939.46 | 899762.9 | 316070.2 | 6939.46 |
| 18+00 | 899775 | 316041 | 6938.67 | 899763.7 | 316039.5 | 6938.67 | 899766.6 | 316040 | 6938.67 |
| 18+84 | 899800 | 315963 | 6936.71 | 899789.8 | 315958 | 6936.71 | 899792.5 | 315959.3 | 6936.71 |
| 19+68 | 899834 | 315886 | 6934.76 | 899823.9 | 315882.2 | 6934.76 | 899826.8 | 315883.1 | 6934.76 |
| 20+52 | 899841 | 315801 | 6932.81 | 899830.2 | 315802 | 6932.81 | 899833.2 | 315801.7 | 6932.81 |
| 21+36 | 899814 | 315720 | 6930.86 | 899804.1 | 315724.7 | 6930.86 | 899806.8 | 315723.4 | 6930.86 |
| 22+20 | 899778 | 315645 | 6928.92 | 899768.1 | 315649.4 | 6928.92 | 899770.8 | 315648.1 | 6928.92 |
| 23+04 | 899747 | 315567 | 6926.97 | 899736.7 | 315570.5 | 6926.97 | 899739.6 | 315569.6 | 6926.97 |
| 23+88 | 899731 | 315486 | 6925.02 | 899719.9 | 315487 | 6925.02 | 899722.9 | 315486.6 | 6925.02 |
| 24+72 | 899724 | 315402 | 6923.07 | 899713.2 | 315403 | 6923.07 | 899716.2 | 315402.7 | 6923.07 |
| 25+56 | 899718 | 315318 | 6921.12 | 899707 | 315319.3 | 6921.12 | 899709.9 | 315319.1 | 6921.12 |

**TABLE 5-1**
**GEORGETOWN CANYON**
**GROUND AND SURFACE WATER**
**PARAMETERS AND ANALYTICAL METHODS**

| Analyte | Analytical Method | Holding Time | Method Detection Limit |
|---|---|---|---|
| | | | |
| **FIELD PARAMETERS** | | | |
| Specific Conductance | Field | | 10 uS/cm |
| pH | Field | | 0.01 units |
| Temperature | Field | | 0.1 degree C° |
| Turbidity | Field | | 0.01 ntu |
| | | | |
| **LABORATORY PARAMETERS** | | | |
| **Wet Chem** | | | |
| Alkalinity | SM 2320 B, Titrimetric | 14 Days | 2.0 mg/l |
| Total Dissolved Solids | EPA M160.1 Gravimetric, 180 C | 7 Days | 10.0 mg/l |
| Total Suspended Solids | EPA M160.2 Gravimetric, 105 C | 7 Days | 5.0 mg/l |
| Specific Conductance | EPA M120.1 Wheatstone Bridge | 28 Days | 1.0 umhos/cm |
| Ion Balance | 1030F & API | | |
| pH | EPA M150.1 Meter | Immediate | 0.1 (units) |
| Bicarbonate | SM 2320 B, Titrimetric | 14 Days | 2.0 mg/l |
| Carbonate | SM 2320 B, Titrimetric | 14 Days | 2.0 mg/l |
| Chloride | EPA M325.2 Colorimetric | 28 Days | 1.0 mg/l |
| Fluoride | EPA M340.2 Ion Specific Electrode | 28 Days | 0.1 mg/l |
| Nitrate+Nitrite | EPA M353.2 Automated Colorimetric | 28 Days | 0.02 mg/l |
| Sulfate | EPA M300.0 Ion Chromatography | 28 Days | 0.5 mg/l |
| Phosphorous | EPA M365.1 Automated Colorimetric | 28 Days | 0.01 mg/l |
| | | | |
| **Metals List –2** | | | |
| Metals Digestion | EPA M3010 | | |
| Aluminum | EPA Method 200.7 ICP | 6 Months | 30 ug/l |
| Arsenic | EPA Method 200.8 ICP/MS | 6 Months | 0.5 ug/l |
| Antimony | EPA Method 200.8 ICP/MS | 6 Months | 0.2 ug/l |
| Cadmium | EPA Method 200.7 ICP | 6 Months | 3 ug/l |
| Calcium | EPA Method 200.7 ICP | 6 Months | 200 ug/l |
| Chromium | EPA Method 200.7 ICP | 6 Months | 10 ug/l |
| Iron | EPA Method 200.7 ICP | 6 Months | 10 ug/l |
| Magnesium | EPA Method 200.7 ICP | 6 Months | 200 ug/l |
| Manganese | EPA Method 200.7 ICP | 6 Months | 5 ug/l |
| Mercury | EPA Method 200.8 ICP/MS | 28 days | 0.05 ug/l |
| Potassium | EPA Method 200.7 ICP | 6 Months | 300 ug/l |
| Selenium | M200.8 ICP-MS | 6 Months | 0.1 ug/l |
| Sodium | EPA Method 200.7 ICP | 6 Months | 300 ug/l |
| Vanadium | EPA Method 200.7 ICP | 6 Months | 5.0 ug/l |
| Zinc | EPA Method 200.7 ICP | 6 Months | 10 ug/l |

1. MDL, reported by ACZ Labs. Reporting limits vary with dilution.
2. Total and dissolved analysis will be performed

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2011 Estimated Annual Costs | 2011 Cost Assumptions * | 2012 Estimated Annual Costs |
|---|---|---|---|
| **Estimated Annual Total Cost** | **$70,915.00** | | **$51,895.10** |
| **Clarifier** | | | |
| Cap maintenance | $500.00 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 | |
| **Phosphoria Gulch** | | | |
| Cap maintenance | $500.00 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 | |
| Vegetative Cover | $1,500.00 | 2.0 L8, 2 E25, 2 M1, 5 M2, 180 E24, 20 M4 | |
| Channel Maintenance | $300.00 | .7 L8 | |
| **Sediment Pond** | | | |
| General | $500.00 | 1.2 L8 | $500.00 |
| Clean out | | | |
| **Stream Channel** | | | |
| Bench and rip rap maintenance | $6,500.00 | 1.5 E4, 1.5 E6, 4 L7, 20 M5, 4 E25, 1 L10 | $3,250.00 |
| ECB Replacement | $3,500.00 | 4 L8, 2 E25, 100 M3, 34 M9 | $1,750.00 |
| Bank Erosion Maintenance | $4,500.00 | 4 L7, 4 E4 | $3,000.00 |
| Vegetative Cover | $3,500.00 | 1 L13, 5 M1, 16 M2 | $1,750.00 |
| Tree Planting | $4,500.00 | 8 L8, 300 M13 | $2,250.00 |
| **Furnace Cover** | | | |
| Vegetative Cover | $250.00 | .25 L8, 1 M1, 1M2, 1E25, 70 E24 | |
| Spillway Maintenance | $250.00 | .6 L8 | |
| **Slurry Pit Cover** | | | |
| Armor Cover | $500.00 | 1.2 L8 | |
| Willow/tree Maintenance | $1,000.00 | .5 L11, 1 L8, 5 M12 | |
| **C&D Landfill Cover** | $500.00 | .25 L11, .5 L8, 2.5 M12 | $250.00 |
| **Tank Spring** | $500.00 | 1.25 L8 | $250.00 |
| **Syncline Spring** | $500.00 | 1.25 L8 | $250.00 |
| **General Site O&M** | | | |
| Vegetative Cover | $2,500.00 | 2.5 L8, 5 M1, 5 M2, 5 E25, 300 E24 | $1,250.00 |
| Weed Spraying | $2,300.00 | 3 L11 | $2,360.49 |
| Fence | $250.00 | 25 M11 | $250.00 |
| Roads | $500.00 | 8 M7, .25 E2, .25 L7 | $350.00 |
| Site Grading/fills | $1,500.00 | 1.5 E2, 1.5 L7, 10 M6 | $500.00 |
| Dud Hollow | $1,500.00 | 1.5 E2, 1.5 L7, 10 M6 | |
| **Monitoring/Reporting** | | | |
| Ground Water Monitoring | $7,875.00 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $8,082.11 |
| Surface Water Monitoring | $1,500.00 | .75 L4, .75 L10, .5 E25, 130 E24 | $1,539.45 |
| Shipping/Analysis | $8,100.00 | 5 O1, 2 O2 | $8,313.03 |
| Reporting | $6,400.00 | 7 L4 | $6,568.32 |
| Site Inspection/Benchmark Surve | $5,430.00 | 4 L10, 2 E13, 4 E25, 560 E24 | $5,572.81 |
| Administative Costs | $3,760.00 | 8 L12 | $3,858.89 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2012 Cost Assumptions * | 2013 Estimated Annual Costs | 2013 Cost Assumptions * |
|---|---|---|---|
| **Estimated Annual Total Cost** | | **$48,849.66** | |
| **Clarifier** | | | |
| Cap maintenance | | $500.00 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 |
| **Phosphoria Gulch** | | | |
| Cap maintenance | | $500.00 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 |
| Vegetative Cover | | $1,500.00 | 2.0 L8, 2 E25, 2 M1, 5 M2, 180 E24, 20 M4 |
| Channel Maintenance | | | |
| **Sediment Pond** | | | |
| General | 1.2 L8 | | |
| Clean out | | | |
| **Stream Channel** | | | |
| Bench and rip rap maintenance | .75 E4, .75 E6, 2 L7, 10 M5, 2 E25, .5 L10 | $1,625.00 | 2 L10, 2 E25, 65 E24 |
| ECB Replacement | 2 L8, 1 E25, 50 M3, 15 M9 | $875.00 | 1 L10, 1 E25, 90 |
| Bank Erosion Maintenance | 2 L7, 2 E4, .75 L10, 1 E25, 140 E24 | $1,500.00 | 3.5 L8 |
| Vegetative Cover | 2 L10, 2 M1, 9 M2, 1 E25, 60 E24 | $875.00 | 1.75 L8, 2 M1, 3 M2, |
| Tree Planting | 4 L8, 150 M13 | $1,125.00 | 2 L8, 75 M13 |
| **Furnace Cover** | | | |
| Vegetative Cover | | | |
| Spillway Maintenance | | | |
| **Slurry Pit Cover** | | | |
| Armor Cover | | $500.00 | 1.2 L8 |
| Willow/tree Maintenance | | $500.00 | .5 L8, 75 M13 |
| **C&D Landfill Cover** | .25 L10 | $125.00 | .12 L10 |
| **Tank Spring** | .25 L10 | $125.00 | .12 L10 |
| **Syncline Spring** | .25 L10 | $125.00 | .12 L10 |
| **General Site O&M** | | | |
| Vegetative Cover | 1.25 L8, 2.5 M1, 2 M2, 2 E25, 150 E24 | $625.00 | 1 L8, 2 M1, 3 M2 |
| Weed Spraying | 3 L11 | $2,422.57 | 3 L11 |
| Fence | 25 M11 | $250.00 | 25 M11 |
| Roads | .8 L8 | $350.00 | .8 L8 |
| Site Grading/fills | 1.2 L8 | $500.00 | 1.2 L8 |
| Dud Hollow | | | |
| **Monitoring/Reporting** | | | |
| Ground Water Monitoring | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $8,294.67 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | .75 L4, .75 L10, .5 E25, 130 E24 | $1,579.94 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | 5 O1, 2 O2 | $8,531.66 | 5 O1, 2 O2 |
| Reporting | 7 L4 | $6,741.07 | 7 L4 |
| Site Inspection/Benchmark Surve | 4 L10, 2 E13, 4 E25, 560 E24 | $5,719.37 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | 8 L12 | $3,960.38 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2014 Estimated Annual Costs | 2014 Cost Assumptions * | 2015 Estimated Annual Costs. | 2015 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$42,954.33** | | **$53,043.76** | |
| **Clarifier** | | | | |
| Cap maintenance | | | $500.00 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | $500.00 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 |
| Vegetative Cover | | | $1,500.00 | 2.0 L8, 2 E25, 2 M1, 5 M2, 180 E24, 20 M4 |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | $500.00 | 1.2 L8 |
| Clean out | | | $5,100.00 | 5 L7, 2 E4, 2 E23, 1E2, 1 E8 |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | $812.50 | 1 L10, 1 E25, 65 E24 | $409.00 | 1 L8 |
| ECB Replacement | $437.50 | | $225.00 | .5 L8 |
| Bank Erosion Maintenance | $750.00 | .75 L10, 1 E25, 65 E24, 60 M4 | $500.00 | 1.25 L8 |
| Vegetative Cover | $437.50 | .5 L8, 2M1, 6 M2 | $200.00 | .25 L8, 1 M1 |
| Tree Planting | $562.50 | 1 L8, 30 M13 | $500.00 | 1.25 L8 |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | $500.00 | 1.2 L8 |
| Willow/tree Maintenance | | | $1,000.00 | 1 L8, 150 M13 |
| **C&D Landfill Cover** | | | $250.00 | .25 L10 |
| **Tank Spring** | | | $250.00 | .25 L10 |
| **Syncline Spring** | $125.00 | .12 L10 | $125.00 | .12 L10 |
| **General Site O&M** | | | | |
| Vegetative Cover | $500.00 | .75 L8, 2 M1, 3 M2 | $500.00 | .75 L8, 2 M1, 3 M2 |
| Weed Spraying | $2,486.28 | 3 L11 | $2,551.67 | 3 L11 |
| Fence | $250.00 | 25 M11 | $250.00 | 25 M11 |
| Roads | $350.00 | .8 L8 | $500.00 | 1.2 L8 |
| Site Grading/fills | $500.00 | 1.2 L8 | $500.00 | 1.2 L8 |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $8,512.82 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $8,736.71 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $1,621.49 | .75 L4, .75 L10, .5 E25, 130 E24 | $1,664.14 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $8,756.05 | 5 O1, 2 O2 | $8,986.33 | 5 O1, 2 O2 |
| Reporting | $6,918.36 | 7 L4 | $7,100.31 | 7 L4 |
| Site Inspection/Benchmark Surve | $5,869.79 | 4 L10, 2 E13, 4 E25, 560 E24 | $6,024.17 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $4,064.53 | 8 L12 | $4,171.43 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2016 Estimated Annual Costs | 2016 Cost Assumptions * | 2017 Estimated Annual Costs | 2017 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$40,266.63** | | **$41,325.64** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $2,618.78 | 3 L11 | $2,687.66 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $8,966.48 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $9,202.30 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $1,707.90 | .75 L4, .75 L10, .5 E25, 130 E24 | $1,752.82 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $9,222.67 | 5 O1, 2 O2 | $9,465.23 | 5 O1, 2 O2 |
| Reporting | $7,287.05 | 7 L4 | $7,478.70 | 7 L4 |
| Site Inspection/Benchmark Surve | $6,182.60 | 4 L10, 2 E13, 4 E25, 560 E24 | $6,345.21 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $4,281.14 | 8 L12 | $4,393.73 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2018 Estimated Annual Costs | 2018 Cost Assumptions * | 2019 Estimated Annual Costs | 2019 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$42,412.51** | | **$43,527.96** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $2,758.34 | 3 L11 | $2,830.89 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $9,444.32 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $9,692.71 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $1,798.92 | .75 L4, .75 L10, .5 E25, 130 E24 | $1,846.23 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $9,714.16 | 5 O1, 2 O2 | $9,969.64 | 5 O1, 2 O2 |
| Reporting | $7,675.39 | 7 L4 | $7,877.25 | 7 L4 |
| Site Inspection/Benchmark Surve | $6,512.09 | 4 L10, 2 E13, 4 E25, 560 E24 | $6,683.35 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $4,509.29 | 8 L12 | $4,627.88 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2020 Estimated Annual Costs | 2020 Cost Assumptions * | 2021 Estimated Annual Costs | 2021 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$50,596.32** | | **$45,847.64** | |
| **Clarifier** | | | | |
| Cap maintenance | $565.88 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | $462.89 | 1 L8 | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | $565.88 | 1.25 L8 | | |
| Vegetative Cover | $226.35 | .25 L8, 1 M1 | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | $565.88 | 1.2 L8 | | |
| Willow/tree Maintenance | $1,131.75 | 1 L8, 150 M13 | | |
| **C&D Landfill Cover** | $282.94 | .25 L10 | | |
| **Tank Spring** | $282.94 | .25 L10 | | |
| **Syncline Spring** | $141.47 | .12 L10 | | |
| **General Site O&M** | | | | |
| Vegetative Cover | $565.88 | .75 L8, 2 M1, 3 M2 | | |
| Weed Spraying | $2,905.34 | 3 L11 | $2,981.75 | 3 L11 |
| Fence | | | | |
| Roads | $565.88 | 1.2 L8 | | |
| Site Grading/fills | $565.88 | 1.2 L8 | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $9,947.63 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $10,209.25 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $1,894.79 | .75 L4, .75 L10, .5 E25, 130 E24 | $1,944.62 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $10,231.85 | 5 O1, 2 O2 | $10,500.94 | 5 O1, 2 O2 |
| Reporting | $8,084.42 | 7 L4 | $8,297.04 | 7 L4 |
| Site Inspection/Benchmark Surve | $6,859.13 | 4 L10, 2 E13, 4 E25, 560 E24 | $7,039.52 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $4,749.60 | 8 L12 | $4,874.51 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2022 Estimated Annual Costs | 2022 Cost Assumptions * | 2023 Estimated Annual Costs | 2023 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$47,053.43** | | **$48,290.93** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $3,060.17 | 3 L11 | $3,140.65 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $10,477.75 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $10,753.32 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $1,995.76 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,048.25 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $10,777.12 | 5 O1, 2 O2 | $11,060.56 | 5 O1, 2 O2 |
| Reporting | $8,515.25 | 7 L4 | $8,739.20 | 7 L4 |
| Site Inspection/Benchmark Surve | $7,224.66 | 4 L10, 2 E13, 4 E25, 560 E24 | $7,414.67 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $5,002.71 | 8 L12 | $5,134.28 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2024 Estimated Annual Costs | 2024 Cost Assumptions * | 2025 Estimated Annual Costs | 2025 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$49,560.99** | | **$57,408.34** | |
| **Clarifier** | | | | |
| Cap maintenance | | | $640.43 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | $523.87 | 1 L8 |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | $640.43 | 1.25 L8 |
| Vegetative Cover | | | $256.17 | .25 L8, 1 M1 |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | $640.43 | 1.2 L8 |
| Willow/tree Maintenance | | | $1,280.86 | 1 L8, 150 M13 |
| **C&D Landfill Cover** | | | $320.21 | .25 L10 |
| **Tank Spring** | | | $320.21 | .25 L10 |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | $640.43 | .75 L8, 2 M1, 3 M2 |
| Weed Spraying | $3,223.25 | 3 L11 | $3,308.02 | 3 L11 |
| Fence | | | | |
| Roads | | | $640.43 | 1.2 L8 |
| Site Grading/fills | | | $640.43 | 1.2 L8 |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $11,036.13 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $11,326.38 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $2,102.12 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,157.41 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $11,351.45 | 5 O1, 2 O2 | $11,649.99 | 5 O1, 2 O2 |
| Reporting | $8,969.05 | 7 L4 | $9,204.93 | 7 L4 |
| Site Inspection/Benchmark Surve | $7,609.67 | 4 L10, 2 E13, 4 E25, 560 E24 | $7,809.81 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $5,269.31 | 8 L12 | $5,407.90 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2026 Estimated Annual Costs | 2026 Cost Assumptions * | 2027 Estimated Annual Costs | 2027 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$52,202.17** | | **$53,575.09** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $3,395.02 | 3 L11 | $3,484.31 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $11,624.26 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $11,929.98 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $2,214.15 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,272.38 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $11,956.39 | 5 O1, 2 O2 | $12,270.84 | 5 O1, 2 O2 |
| Reporting | $9,447.02 | 7 L4 | $9,695.48 | 7 L4 |
| Site Inspection/Benchmark Surve | $8,015.21 | 4 L10, 2 E13, 4 E25, 560 E24 | $8,226.01 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $5,550.13 | 8 L12 | $5,696.09 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2028 Estimated Annual Costs | 2028 Cost Assumptions * | 2029 Estimated Annual Costs | 2029 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$54,984.12** | | **$56,430.20** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $3,575.95 | 3 L11 | $3,670.00 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $12,243.74 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $12,565.75 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $2,332.14 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,393.48 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $12,593.56 | 5 O1, 2 O2 | $12,924.77 | 5 O1, 2 O2 |
| Reporting | $9,950.47 | 7 L4 | $10,212.17 | 7 L4 |
| Site Inspection/Benchmark Surve | $8,442.35 | 4 L10, 2 E13, 4 E25, 560 E24 | $8,664.39 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $5,845.90 | 8 L12 | $5,999.65 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2030 Estimated Annual Costs | 2030 Cost Assumptions * | 2031 Estimated Annual Costs | 2031 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$65,320.38** | | **$59,437.46** | |
| **Clarifier** | | | | |
| Cap maintenance | $724.81 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | $592.89 | 1 L8 | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | $724.81 | 1.25 L8 | | |
| Vegetative Cover | $289.92 | .25 L8, 1 M1 | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | $724.81 | 1.2 L8 | | |
| Willow/tree Maintenance | $1,449.61 | 1 L8, 150 M13 | | |
| **C&D Landfill Cover** | $362.40 | .25 L10 | | |
| **Tank Spring** | $362.40 | .25 L10 | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | $724.81 | .75 L8, 2 M1, 3 M2 | | |
| Weed Spraying | $3,766.52 | 3 L11 | $3,865.58 | 3 L11 |
| Fence | | | | |
| Roads | $724.81 | 1.2 L8 | | |
| Site Grading/fills | $724.81 | 1.2 L8 | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $12,896.23 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $13,235.40 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $2,456.42 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,521.03 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $13,264.69 | 5 O1, 2 O2 | $13,613.56 | 5 O1, 2 O2 |
| Reporting | $10,480.75 | 7 L4 | $10,756.39 | 7 L4 |
| Site Inspection/Benchmark Surve | $8,892.26 | 4 L10, 2 E13, 4 E25, 560 E24 | $9,126.12 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $6,157.44 | 8 L12 | $6,319.38 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2032 Estimated Annual Costs | 2032 Cost Assumptions * | 2033 Estimated Annual Costs | 2033 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$61,000.66** | | **$62,604.98** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $3,967.24 | 3 L11 | $4,071.58 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $13,583.49 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $13,940.74 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $2,587.33 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,655.38 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $13,971.59 | 5 O1, 2 O2 | $14,339.05 | 5 O1, 2 O2 |
| Reporting | $11,039.28 | 7 L4 | $11,329.62 | 7 L4 |
| Site Inspection/Benchmark Surve | $9,366.14 | 4 L10, 2 E13, 4 E25, 560 E24 | $9,612.47 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $6,485.58 | 8 L12 | $6,656.15 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2034 Estimated Annual Costs | 2034 Cost Assumptions * | 2035 Estimated Annual Costs | 2035 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$64,251.49** | | **$74,323.12** | |
| **Clarifier** | | | | |
| Cap maintenance | | | $820.30 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | $671.00 | 1 L8 |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | $820.30 | 1.25 L8 |
| Vegetative Cover | | | $328.12 | .25 L8, 1 M1 |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | $820.30 | 1.2 L8 |
| Willow/tree Maintenance | | | $1,640.60 | 1 L8, 150 M13 |
| **C&D Landfill Cover** | | | $410.15 | .25 L10 |
| **Tank Spring** | | | $410.15 | .25 L10 |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | $820.30 | .75 L8, 2 M1, 3 M2 |
| Weed Spraying | $4,178.66 | 3 L11 | $4,288.56 | 3 L11 |
| Fence | | | | |
| Roads | | | $820.30 | 1.2 L8 |
| Site Grading/fills | | | $820.30 | 1.2 L8 |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $14,307.38 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $14,683.66 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $2,725.22 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,796.89 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $14,716.16 | 5 O1, 2 O2 | $15,103.20 | 5 O1, 2 O2 |
| Reporting | $11,627.59 | 7 L4 | $11,933.39 | 7 L4 |
| Site Inspection/Benchmark Surve | $9,865.28 | 4 L10, 2 E13, 4 E25, 560 E24 | $10,124.74 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $6,831.21 | 8 L12 | $7,010.87 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2036 Estimated Annual Costs | 2036 Cost Assumptions * | 2037 Estimated Annual Costs | 2037 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$67,675.56** | | **$69,455.43** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $4,401.35 | 3 L11 | $4,517.11 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $15,069.84 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $15,466.18 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $2,870.45 | .75 L4, .75 L10, .5 E25, 130 E24 | $2,945.94 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $15,500.41 | 5 O1, 2 O2 | $15,908.07 | 5 O1, 2 O2 |
| Reporting | $12,247.24 | 7 L4 | $12,569.34 | 7 L4 |
| Site Inspection/Benchmark Surve | $10,391.02 | 4 L10, 2 E13, 4 E25, 560 E24 | $10,664.30 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $7,195.25 | 8 L12 | $7,384.49 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2038 Estimated Annual Costs | 2038 Cost Assumptions * | 2039 Estimated Annual Costs | 2039 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$71,282.11** | | **$73,156.83** | |
| **Clarifier** | | | | |
| Cap maintenance | | | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | | | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | | | | |
| Vegetative Cover | | | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | | | | |
| Willow/tree Maintenance | | | | |
| **C&D Landfill Cover** | | | | |
| **Tank Spring** | | | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | | | | |
| Weed Spraying | $4,635.91 | 3 L11 | $4,757.83 | 3 L11 |
| Fence | | | | |
| Roads | | | | |
| Site Grading/fills | | | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $15,872.94 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $16,290.40 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $3,023.42 | .75 L4, .75 L10, .5 E25, 130 E24 | $3,102.93 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $16,326.46 | 5 O1, 2 O2 | $16,755.84 | 5 O1, 2 O2 |
| Reporting | $12,899.92 | 7 L4 | $13,239.18 | 7 L4 |
| Site Inspection/Benchmark Surve | $10,944.77 | 4 L10, 2 E13, 4 E25, 560 E24 | $11,232.62 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $7,578.70 | 8 L12 | $7,778.02 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-1

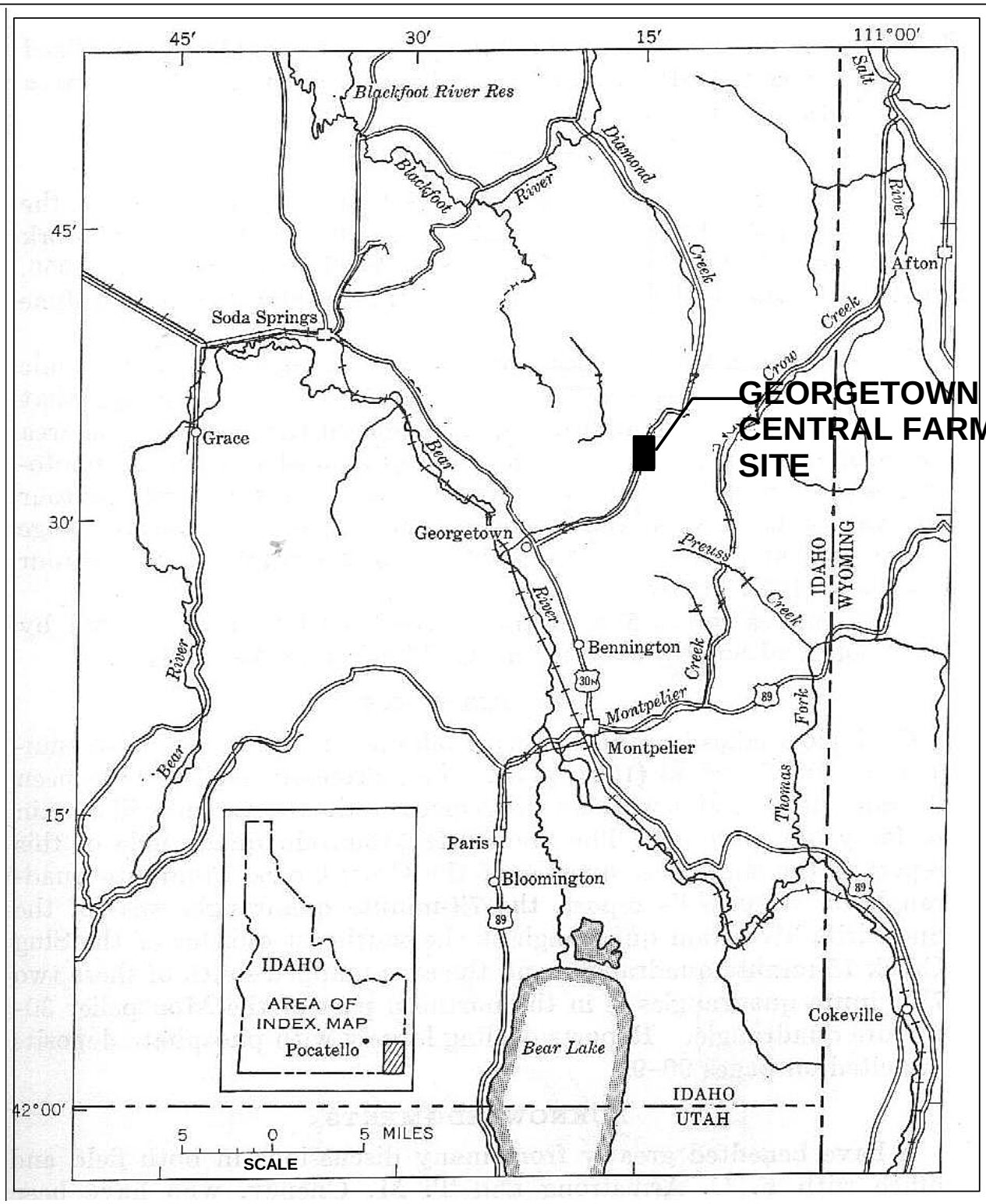
ESTIMATED POST-CLOSURE COSTS FOR 30-YEAR PERIOD

| Facility/Activity | 2040 Estimated Annual Costs | 2040 Cost Assumptions * | 2041 Estimated Annual Costs | 2041 Cost Assumptions * |
|---|---|---|---|---|
| **Estimated Annual Total Cost** | **$84,566.97** | | **$77,055.48** | |
| **Clarifier** | | | | |
| Cap maintenance | $928.37 | .5 L8, 1 M1, 1 M2, 1 E25, 70 E24 | | |
| **Phosphoria Gulch** | | | | |
| Cap maintenance | | | | |
| Vegetative Cover | | | | |
| Channel Maintenance | | | | |
| **Sediment Pond** | | | | |
| General | | | | |
| Clean out | | | | |
| **Stream Channel** | | | | |
| Bench and rip rap maintenance | $759.41 | 1 L8 | | |
| ECB Replacement | | | | |
| Bank Erosion Maintenance | $928.37 | 1.25 L8 | | |
| Vegetative Cover | $371.35 | .25 L8, 1 M1 | | |
| Tree Planting | | | | |
| **Furnace Cover** | | | | |
| Vegetative Cover | | | | |
| Spillway Maintenance | | | | |
| **Slurry Pit Cover** | | | | |
| Armor Cover | $928.37 | 1.2 L8 | | |
| Willow/tree Maintenance | $1,856.75 | 1 L8, 150 M13 | | |
| **C&D Landfill Cover** | $464.19 | .25 L10 | | |
| **Tank Spring** | $464.19 | .25 L10 | | |
| **Syncline Spring** | | | | |
| **General Site O&M** | | | | |
| Vegetative Cover | $928.37 | .75 L8, 2 M1, 3 M2 | | |
| Weed Spraying | $4,882.96 | 3 L11 | $5,011.38 | 3 L11 |
| Fence | | | | |
| Roads | $928.37 | 1.2 L8 | | |
| Site Grading/fills | $928.37 | 1.2 L8 | | |
| Dud Hollow | | | | |
| **Monitoring/Reporting** | | | | |
| Ground Water Monitoring | $16,718.84 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 | $17,158.54 | 3 L10, 3 E7, 3 E25, 360 E24, 3 E11 |
| Surface Water Monitoring | $3,184.54 | .75 L4, .75 L10, .5 E25, 130 E24 | $3,268.29 | .75 L4, .75 L10, .5 E25, 130 E24 |
| Shipping/Analysis | $17,196.52 | 5 O1, 2 O2 | $17,648.79 | 5 O1, 2 O2 |
| Reporting | $13,587.37 | 7 L4 | $13,944.72 | 7 L4 |
| Site Inspection/Benchmark Surve | $11,528.04 | 4 L10, 2 E13, 4 E25, 560 E24 | $11,831.22 | 4 L10, 2 E13, 4 E25, 560 E24 |
| Administative Costs | $7,982.58 | 8 L12 | $8,192.52 | 8 L12 |

* Estimated cost based on preceding multiplier times category of labor rate, equipment rate, material costs, or other cost rates shown. See unit rates in Table 7-2.
Annual inflation rates based on 2.63 percent.

TABLE 7-2
ESTIMATED UNIT COSTS
AND EQUIPMENT AND RATES USED FOR POST-CLOSURE CARE COST ESTIMATE

| Labor Cat. | LABOR RATES | Day Rate | Equip Cat. | EQUIPMENT RATES | Daily Rate | Material Cat | Material Costs | Unit Cost | Other Cat. | Other Costs | Unit Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L1 | Senior Project Manager | $1,190 | E1 | 330 Bucket - 30" | $90 | M1 | Certified Reclam. Mix (lb) | $ 85 | O1 | Cooler Shipping (ea) | $180 |
| L2 | Project Manager | $998 | E2 | Dozer, CAT D4C | $400 | M2 | Fertilizer (lb) | $ 10 | O2 | Sample Analyses (round) | $3,600 |
| L3 | Project Engineer | $808 | E3 | Dozer, CAT D6N LGP | $900 | M3 | ECB (yd2) | $ 8 | | | |
| L4 | Project Geologist | $870 | E4 | Excavator, CAT 320 | $650 | M4 | Silt Fence (ft) | $ 1 | | | |
| L5 | Superintendent | $998 | E5 | Loader Backhoe, CAT 420D | $300 | M5 | Rip Rap (yd) | $ 75 | | | |
| L6 | Foreman | $520 | E6 | Off Road Truck, CAT 350 | $1,100 | M6 | Soil Fill (yd) | $ 20 | | | |
| L7 | Equipment Operator | $466 | E7 | Pump Rig | $1,650 | M7 | Road Base (yd) | $ 32 | | | |
| L8 | General Laborer | $409 | E8 | Vibratory Compactor, CAT 563D | $650 | M8 | Culvert (20 ft) | $2,000 | | | |
| L9 | Safety & Health Officer | $713 | E9 | HCN Monitor | $19 | M9 | Type II ECB (yd) | $ 23 | | | |
| L10 | Field Sampler | $650 | E10 | PH3 Monitor | $16 | M10 | Bentonite (yd) | $ 600 | | | |
| L11 | Weed Sprayer | $750 | E11 | ph/conductivity meter | $75 | M11 | Fence Repairs (ft) | $ 25 | | | |
| L12 | Administrative | $470 | E12 | Flow Meter | $25 | M12 | Herbicide (gal) | $ 50 | | | |
| L13 | Seeder and Crew | $3,000 | E13 | Survey, GPS Walkaround System | $875 | M13 | Trees (ea) | $ 4 | | | |
| | | | E14 | Water Level Meter | $30 | | | | | | |
| | | | E15 | Water Quality Meter | $75 | | | | | | |
| | | | E16 | Chain Saw w/ Safety Equipment | $40 | | | | | | |
| | | | E17 | Compactor, Vibrating | $80 | | | | | | |
| | | | E18 | Cut-off Saw, Gas, 14" | $50 | | | | | | |
| | | | E19 | Generator, 6500 kW | $65 | | | | | | |
| | | | E20 | Pressure Washer, 4,000 psi | $60 | | | | | | |
| | | | E21 | Pump, Submersible, 4" Electric | $115 | | | | | | |
| | | | E22 | Satellite Phone | $25 | | | | | | |
| | | | E23 | Dump Truck/Hauling 10 C.Y. | $210 | | | | | | |
| | | | E24 | Field Vehicle (per mile) | $1 | | | | | | |
| | | | E25 | Field Vehicle (Pickup/Van) | $130 | | | | | | |
| | | | E26 | Water Truck, 2000 Gallon | $325 | | | | | | |



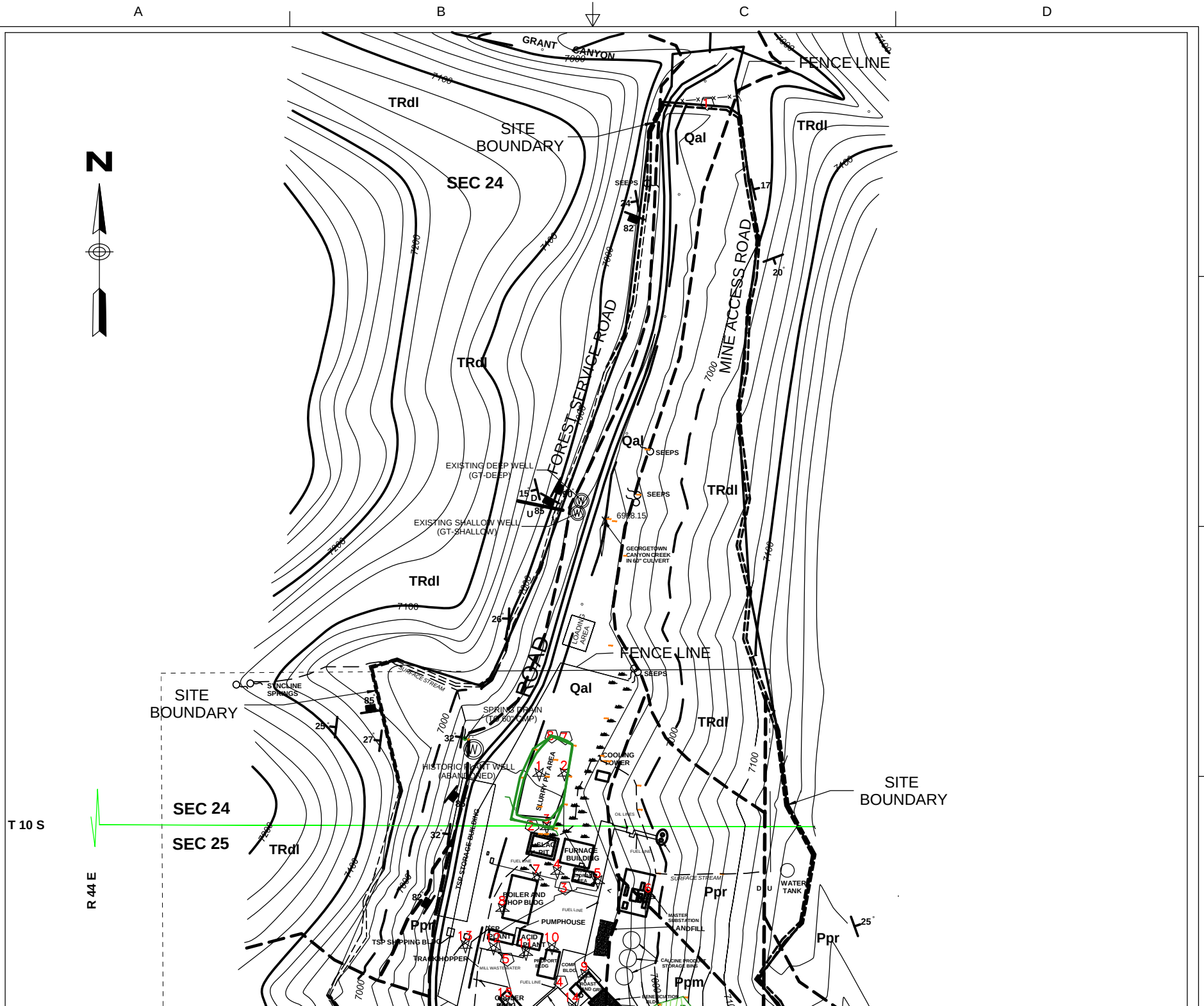

REMEDIAL ACTION COMPLETION REPORT

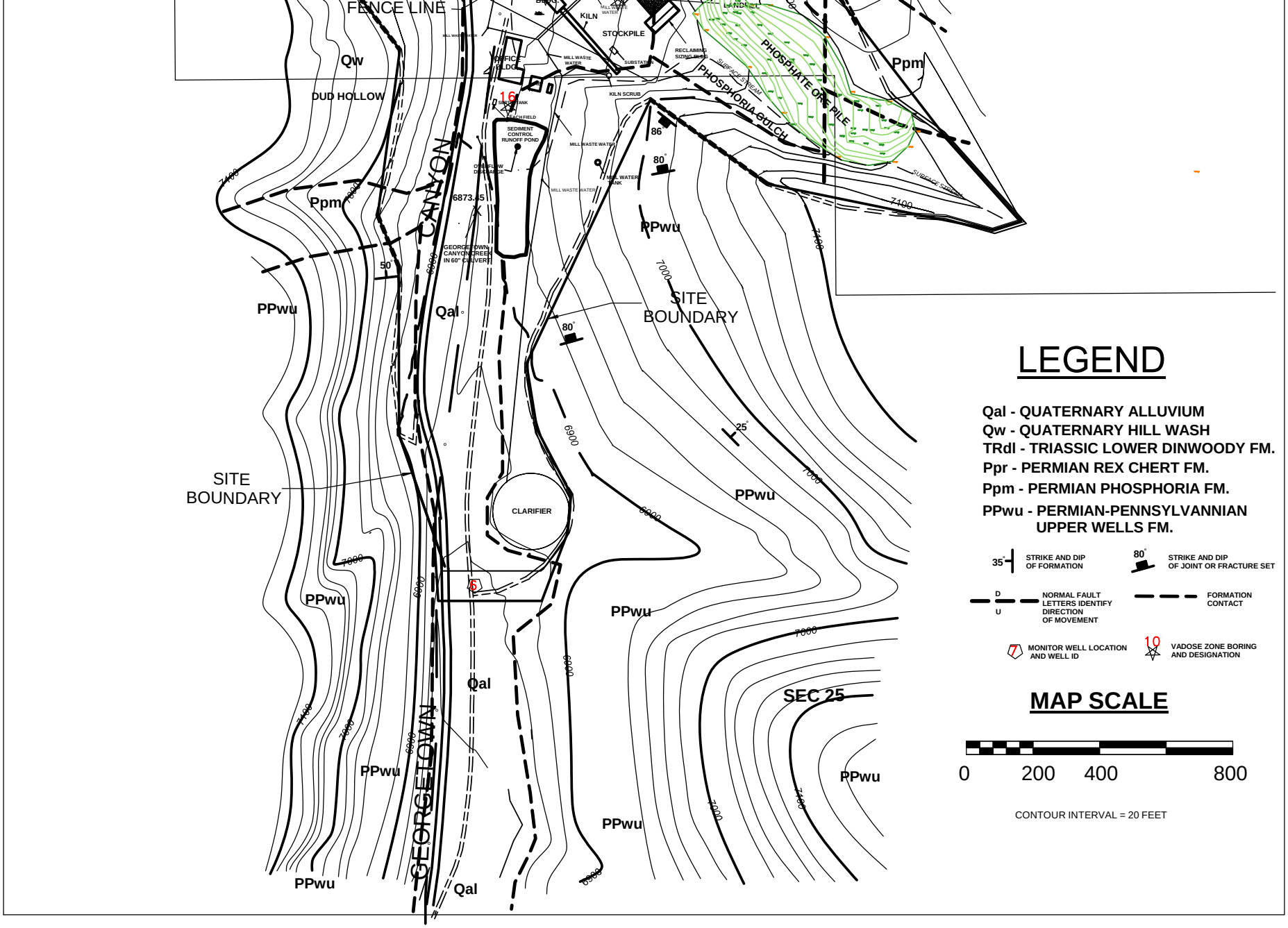
N

**REFERENCE:**
**GEOLOGY OF THE GEORGETOWN CANYON-SNOWDRIFT MOUNTAIN AREA, SOUTHEASTERN IDAHO**
**USGS BULLETIN 1153, 1964, PLATE 4.**

**LOCATION MAP OF CLOSED CENTRAL FARMERS FERTILIZER PLANT IN GEORGETOWN CANYON, IDAHO**

| AGRIUM US INC. | FIGURE 1-1 |
|---|---|


A
B
C
D
8
7
6
5
N
GRANT CANYON
FENCE LINE
TRdl
SITE BOUNDARY
SEC 24
Qal
SEEPS
MINE ACCESS ROAD
FOREST SERVICE ROAD
EXISTING DEEP WELL (GT-DEEP)
EXISTING SHALLOW WELL (GT-SHALLOW)
GEORGETOWN CANYON CREEK IN 60" CULVERT
LOADING AREA
SINCLINE SPRINGS
SURFACE STREAM
SPRING DRAIN (TSP 60" CMP)
HISTORICAL GRANT WELL (ABANDONED)
SLURRY PIT AREA
COOLING TOWER
OIL LINES
SLAG PIT
FURNACE BUILDING
FUEL LINE
BOILER AND SHOP BLDG
PUMPHOUSE
TSP STORAGE BUILDING
TSP SHIPPING BLDG
TRAMHOPPER
ISEP PLANT
ACID PLANT
MILL WASTEWATER
PRESORT BLDG
COMP BLDG
ROASTER AND GRIND
CRUSHER
MASTER SUBSTATION
LANDFILL
CALCINE PRODUCT STORAGE BINS
BENEFICIATION BLDG
WATER TANK
SITE BOUNDARY
SEC 24
SEC 25
T 10 S
R 44 E
Ppr
Ppm
Ppl
TRdl
Qal




# LEGEND

Qal - QUATERNARY ALLUVIUM
Qw - QUATERNARY HILL WASH
TRdl - TRIASSIC LOWER DINWOODY FM.
Ppr - PERMIAN REX CHERT FM.
Ppm - PERMIAN PHOSPHORIA FM.
PPwu - PERMIAN-PENNSYLVANNIAN UPPER WELLS FM.

35° STRIKE AND DIP OF FORMATION
80° STRIKE AND DIP OF JOINT OR FRACTURE SET
D U NORMAL FAULT LETTERS IDENTIFY DIRECTION OF MOVEMENT
FORMATION CONTACT
7 MONITOR WELL LOCATION AND WELL ID
10 VADOSE ZONE BORING AND DESIGNATION

## MAP SCALE

0 200 400 800

CONTOUR INTERVAL = 20 FEET

REFERENCES:

U.S.G.S., HARRINGTON PEAK, IDAHO 15 MINUTE SERIES QUADRANGLE, 1970, PHOTOINSPECTED 1980.

RECORD OF SURVEY, AGRIUM U.S. INC., SEC 25, T10S., R.44 E.B.M., HARPER-LEAVITT ENGINEERS, INC, JAN 13, 2003

GEOLOGY OF THE GEORGETOWN CANYON-SNOWDRIFT MOUNTAIN AREA, SOUTHEASTERN IDAHO - USGS BULLETIN 1153, 1964, PLATE 4.

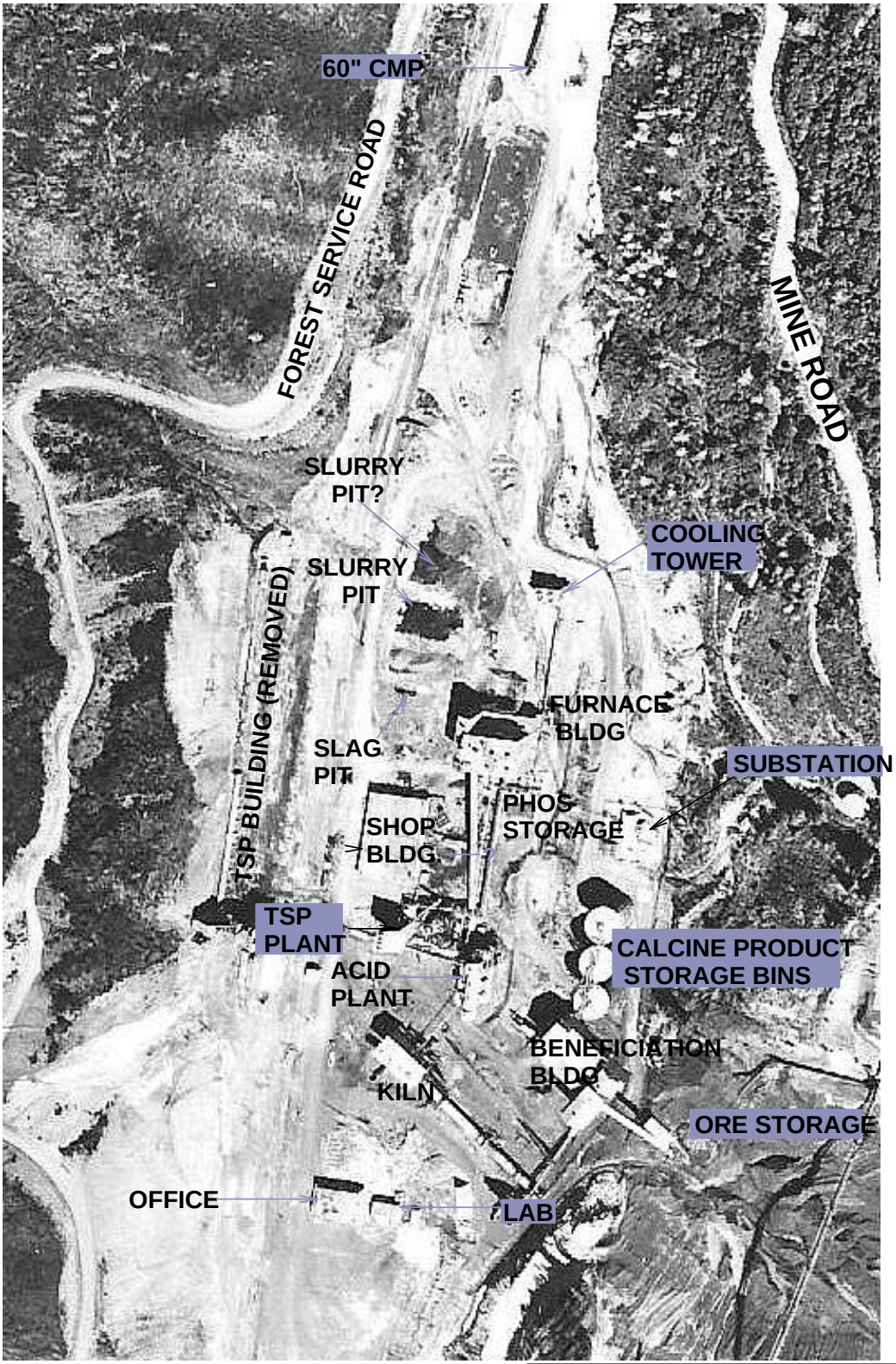
DRAWN BY J.S. BROWN, P.G. # 721

REMEDIAL ACTION COMPLETION REPORT

TITLE
GEOLOGIC MAP
CENTRAL FARMERS
FERTILIZER PLANT
GEORGETOWN CANYON, IDAHO

| SIZE | CAGE CODE | DWG NO | REV |
|---|---|---|---|
| D | | GEORGETOWN CANYON BASE MAP | 0 |

| SCALE | | SHEET |
|---|---|---|
| AS SHOWN | 1/28/10 | FIGURE 1-2 |




N

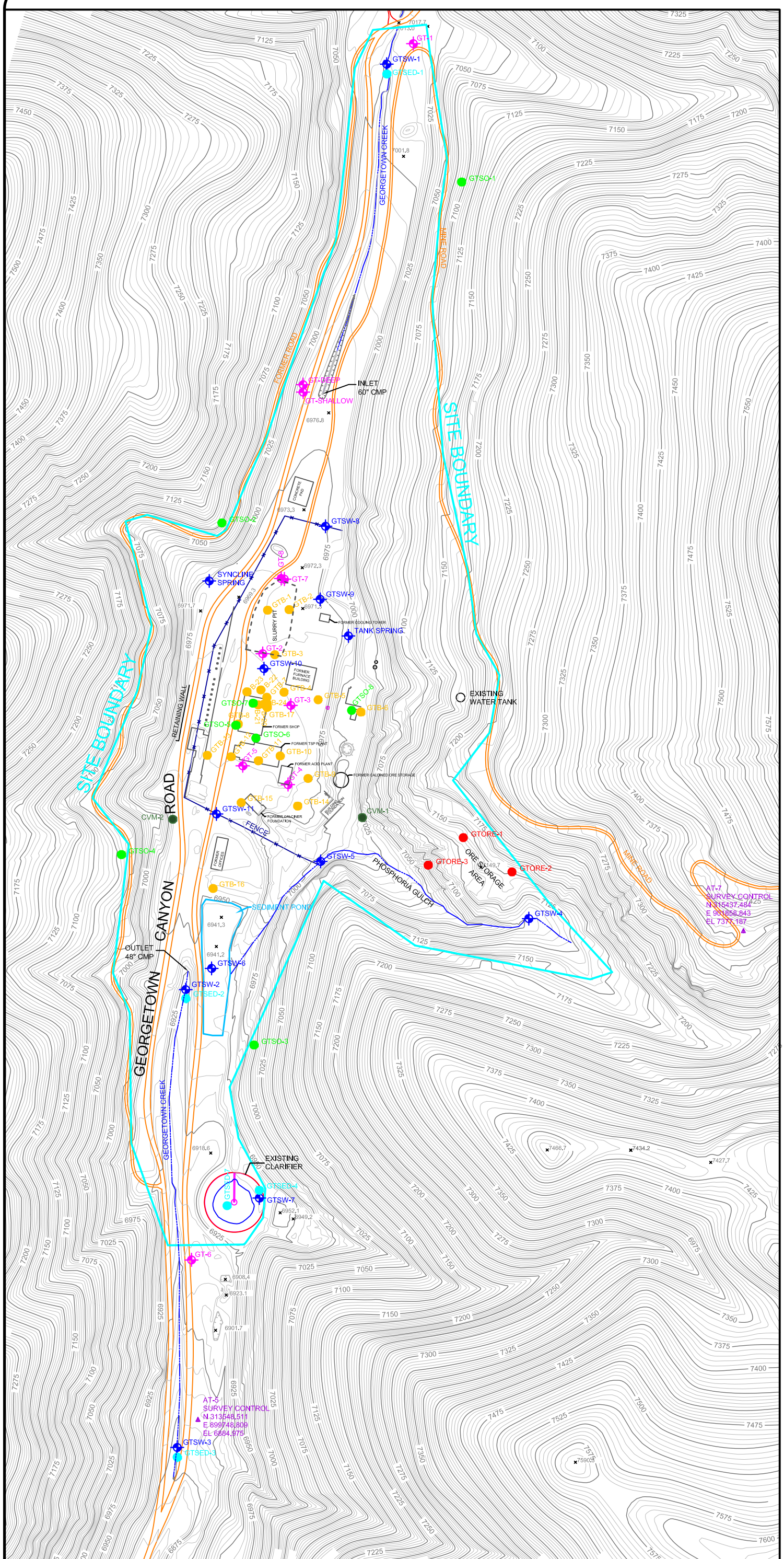
REFERENCE:
KOOGLE AND POULS ENGINEERING, ALBEQUERQUE, NM
AUGUST 11, 1965 AERIAL PHOTOGRAPHY

REMEDIAL ACTION COMPLETION REPORT

# LOCATION MAP OF CENTRAL FARMERS FERTILIZER FACILITY SITE FEATURES

CENTRALFARMERSSITEFEATURES.TCW

FIGURE 1-3




SCALE

200 FT 0 200 FT

CONTOUR INTERVAL 5 FT

# LEGEND

| | |
|---|---|
| GTSW-8 | SURFACE WATER MONITORING SITE |
| GT-5 | GROUND WATER MONITORING SITE |
| GTB-5 | SOIL AUGER BORING SAMPLE SITE |
| GTSED-2 | STREAM SEDIMENT SAMPLE SITE |
| GTSO-3 | SURFACE SOIL SAMPLE SITE |
| GTORE-2 | ORE SAMPLE SITE |
| CVM-1 | GEOTECHNICAL SAMPLE SITE |

NU-WEST INDUSTRIES, INC.

NU-WEST INDUSTRIES, INC. AND NU-WEST MINING, INC.

REMEDIAL ACTION COMPLETION REPORT

CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON, IDAHO
SITE MAP

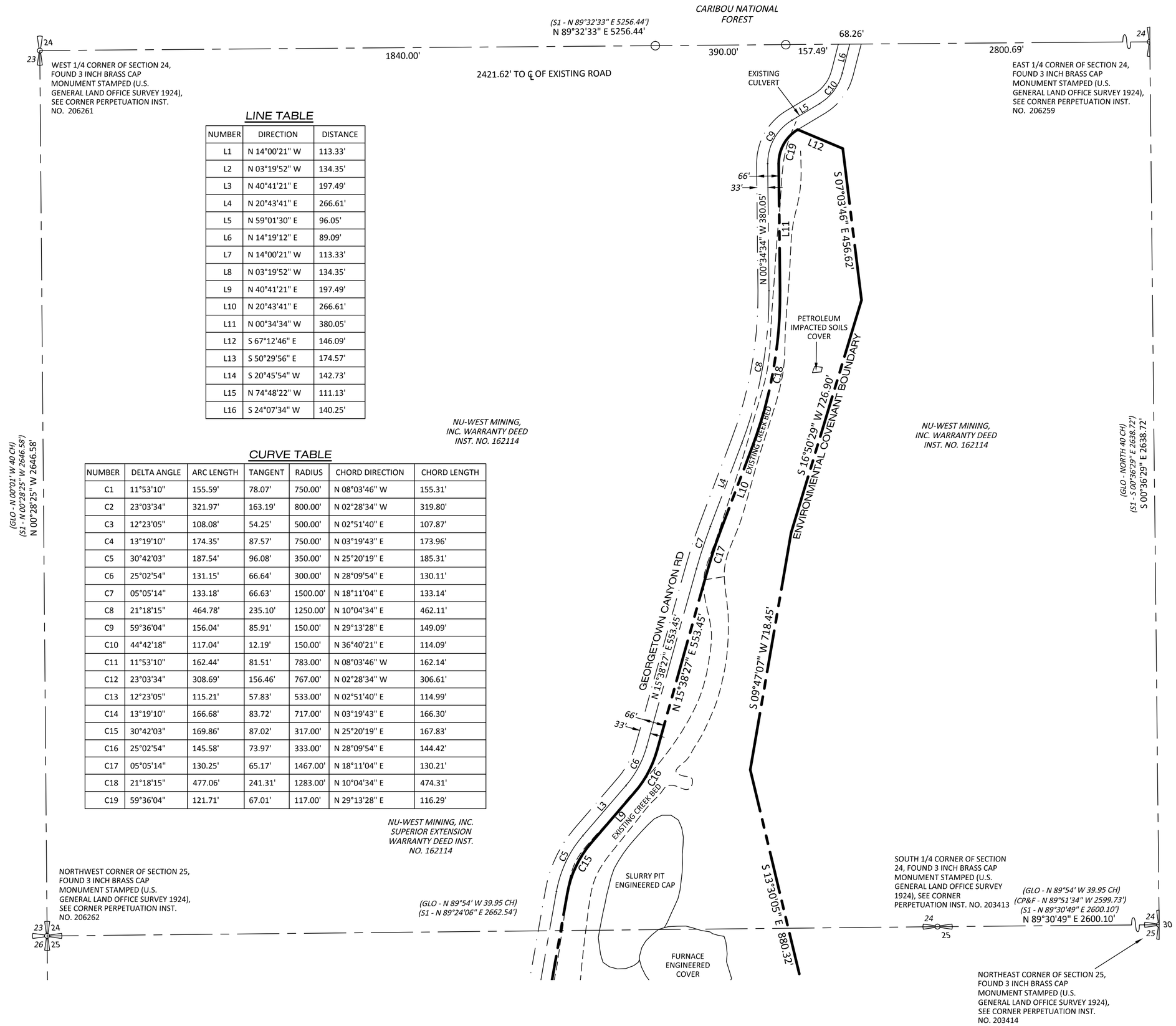
file: Plant Site DF.dwg

DATE DECEMBER, 2008

FIGURE 1-4

# NU-WEST MINING INC.

LOCATED IN THE SOUTH HALF OF SECTION 24, AND THE NORTH HALF OF SECTION 25, TOWNSHIP 10 SOUTH, RANGE 44 EAST, B.M., BEAR LAKE COUNTY, IDAHO

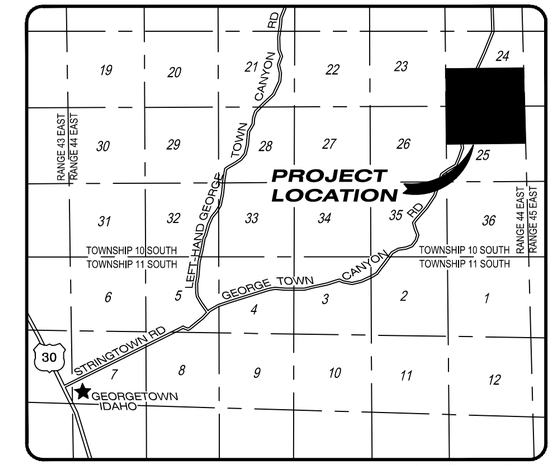



## LINE TABLE

| NUMBER | DIRECTION | DISTANCE |
|---|---|---|
| L1 | N 14°00'21" W | 113.33' |
| L2 | N 03°19'52" W | 134.35' |
| L3 | N 40°41'21" E | 197.49' |
| L4 | N 20°43'41" E | 266.61' |
| L5 | N 59°01'30" E | 96.05' |
| L6 | N 14°19'12" E | 89.09' |
| L7 | N 14°00'21" W | 113.33' |
| L8 | N 03°19'52" W | 134.35' |
| L9 | N 40°41'21" E | 197.49' |
| L10 | N 20°43'41" E | 266.61' |
| L11 | N 00°34'34" W | 380.05' |
| L12 | S 67°12'46" E | 146.09' |
| L13 | S 50°29'56" E | 174.57' |
| L14 | S 20°45'54" W | 142.73' |
| L15 | N 74°48'22" W | 111.13' |
| L16 | S 24°07'34" W | 140.25' |

## CURVE TABLE

| NUMBER | DELTA ANGLE | ARC LENGTH | TANGENT | RADIUS | CHORD DIRECTION | CHORD LENGTH |
|---|---|---|---|---|---|---|
| C1 | 11°53'10" | 155.59' | 78.07' | 750.00' | N 08°03'46" W | 155.31' |
| C2 | 23°03'34" | 321.97' | 163.19' | 800.00' | N 02°28'34" W | 319.80' |
| C3 | 12°23'05" | 108.08' | 54.25' | 500.00' | N 02°51'40" E | 107.87' |
| C4 | 13°19'10" | 174.35' | 87.57' | 750.00' | N 03°19'43" E | 173.96' |
| C5 | 30°42'03" | 187.54' | 96.08' | 350.00' | N 25°20'19" E | 185.31' |
| C6 | 25°02'54" | 131.15' | 66.64' | 300.00' | N 28°09'54" E | 130.11' |
| C7 | 05°05'14" | 133.18' | 66.63' | 1500.00' | N 18°11'04" E | 133.14' |
| C8 | 21°18'15" | 464.78' | 235.10' | 1250.00' | N 10°04'34" E | 462.11' |
| C9 | 59°36'04" | 156.04' | 85.91' | 150.00' | N 29°13'28" E | 149.09' |
| C10 | 44°42'18" | 117.04' | 12.19' | 150.00' | N 36°40'21" E | 114.09' |
| C11 | 11°53'10" | 162.44' | 81.51' | 783.00' | N 08°03'46" W | 162.14' |
| C12 | 23°03'34" | 308.69' | 156.46' | 767.00' | N 02°28'34" W | 306.61' |
| C13 | 12°23'05" | 115.21' | 57.83' | 533.00' | N 02°51'40" E | 114.99' |
| C14 | 13°19'10" | 166.68' | 83.72' | 717.00' | N 03°19'43" E | 166.30' |
| C15 | 30°42'03" | 169.86' | 87.02' | 317.00' | N 25°20'19" E | 167.83' |
| C16 | 25°02'54" | 145.58' | 73.97' | 333.00' | N 28°09'54" E | 144.42' |
| C17 | 05°05'14" | 130.25' | 65.17' | 1467.00' | N 18°11'04" E | 130.21' |
| C18 | 21°18'15" | 477.06' | 241.31' | 1283.00' | N 10°04'34" E | 474.31' |
| C19 | 59°36'04" | 121.71' | 67.01' | 117.00' | N 29°13'28" E | 116.29' |




VICINITY MAP

## LEGEND

- FOUND SECTION CORNER
- FOUND 1/4 CORNER
- FOUND 2 INCH ALUMINUM CAP AFFIXED TO A 1/2 INCH REBAR STAMPED (P.O.L. 2009 LS 13023) SEE ROS RECORDED INST. NO. 206263
- SECTION LINE / STREET CENTERLINE
- RIGHT-OF-WAY LINE FOR GEORGETOWN CANYON ROAD
- ENVIRONMENTAL COVENANT BOUNDARY LINE
- EXISTING BANK OF CREEK

## REFERENCE DOCUMENTS

(GLO - ) BEARING AND DISTANCE PER GLO RECORDS

(CP&F - ) BEARING AND DISTANCE PER CORNER PERPETUATION INST. NO.'S 203413 AND 203414

(S1 - ) BEARING AND DISTANCE PER RECORD OF SURVEY INST. NO. 206263 FOR NU-WEST MINING INC.

## GRAPHIC SCALE

-200 0 100 200

(IN FEET)
1 inch = 200 feet

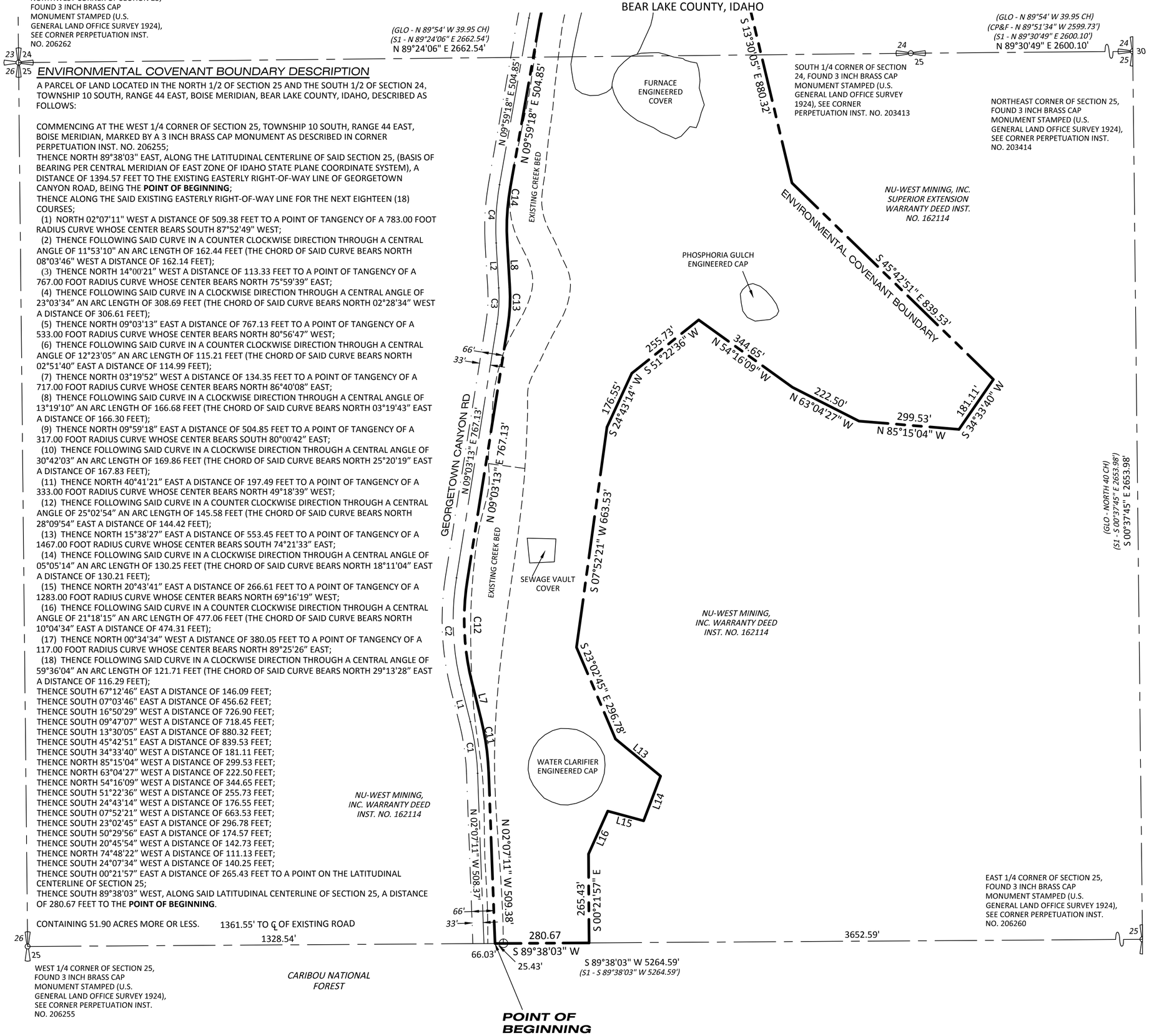
## BASIS OF BEARING

PER CENTRAL MERIDIAN OF EAST ZONE OF IDAHO STATE PLANE COORDINATE SYSTEM

Figure 1-5A

# NU-WEST MINING INC.

LOCATED IN THE SOUTH HALF OF SECTION 24, AND THE NORTH HALF OF SECTION 25, TOWNSHIP 10 SOUTH, RANGE 44 EAST, B.M., BEAR LAKE COUNTY, IDAHO




## ENVIRONMENTAL COVENANT BOUNDARY DESCRIPTION

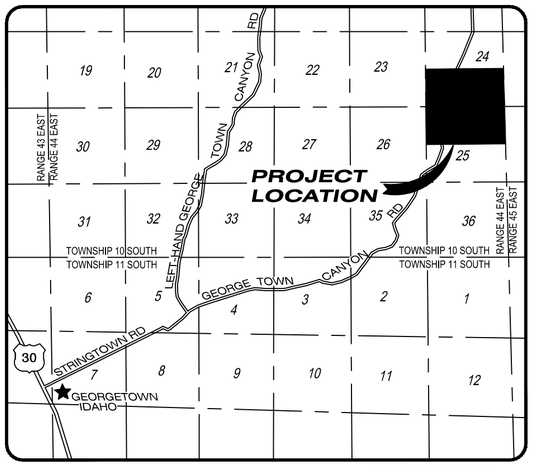
A PARCEL OF LAND LOCATED IN THE NORTH 1/2 OF SECTION 25 AND THE SOUTH 1/2 OF SECTION 24, TOWNSHIP 10 SOUTH, RANGE 44 EAST, BOISE MERIDIAN, BEAR LAKE COUNTY, IDAHO, DESCRIBED AS FOLLOWS:

COMMENCING AT THE WEST 1/4 CORNER OF SECTION 25, TOWNSHIP 10 SOUTH, RANGE 44 EAST, BOISE MERIDIAN, MARKED BY A 3 INCH BRASS CAP MONUMENT AS DESCRIBED IN CORNER PERPETUATION INST. NO. 206255;
THENCE NORTH 89°38'03" EAST, ALONG THE LATITUDINAL CENTERLINE OF SAID SECTION 25, (BASIS OF BEARING PER CENTRAL MERIDIAN OF EAST ZONE OF IDAHO STATE PLANE COORDINATE SYSTEM), A DISTANCE OF 1394.57 FEET TO THE EXISTING EASTERLY RIGHT-OF-WAY LINE OF GEORGETOWN CANYON ROAD, BEING THE **POINT OF BEGINNING**;
THENCE ALONG THE SAID EXISTING EASTERLY RIGHT-OF-WAY LINE FOR THE NEXT EIGHTEEN (18) COURSES;

(1) NORTH 02°07'11" WEST A DISTANCE OF 509.38 FEET TO A POINT OF TANGENCY OF A 783.00 FOOT RADIUS CURVE WHOSE CENTER BEARS SOUTH 87°52'49" WEST;
(2) THENCE FOLLOWING SAID CURVE IN A COUNTER CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 11°53'10" AN ARC LENGTH OF 162.44 FEET (THE CHORD OF SAID CURVE BEARS NORTH 08°03'46" WEST A DISTANCE OF 162.14 FEET);
(3) THENCE NORTH 14°00'21" WEST A DISTANCE OF 113.33 FEET TO A POINT OF TANGENCY OF A 767.00 FOOT RADIUS CURVE WHOSE CENTER BEARS NORTH 75°59'39" EAST;
(4) THENCE FOLLOWING SAID CURVE IN A CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 23°03'34" AN ARC LENGTH OF 308.69 FEET (THE CHORD OF SAID CURVE BEARS NORTH 02°28'34" WEST A DISTANCE OF 306.61 FEET);
(5) THENCE NORTH 09°03'13" EAST A DISTANCE OF 767.13 FEET TO A POINT OF TANGENCY OF A 533.00 FOOT RADIUS CURVE WHOSE CENTER BEARS NORTH 80°56'47" WEST;
(6) THENCE FOLLOWING SAID CURVE IN A COUNTER CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 12°23'05" AN ARC LENGTH OF 115.21 FEET (THE CHORD OF SAID CURVE BEARS NORTH 02°51'40" EAST A DISTANCE OF 114.99 FEET);
(7) THENCE NORTH 03°19'52" WEST A DISTANCE OF 134.35 FEET TO A POINT OF TANGENCY OF A 717.00 FOOT RADIUS CURVE WHOSE CENTER BEARS NORTH 86°40'08" EAST;
(8) THENCE FOLLOWING SAID CURVE IN A CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 13°19'10" AN ARC LENGTH OF 166.68 FEET (THE CHORD OF SAID CURVE BEARS NORTH 03°19'43" EAST A DISTANCE OF 166.30 FEET);
(9) THENCE NORTH 09°59'18" EAST A DISTANCE OF 504.85 FEET TO A POINT OF TANGENCY OF A 317.00 FOOT RADIUS CURVE WHOSE CENTER BEARS SOUTH 80°00'42" EAST;
(10) THENCE FOLLOWING SAID CURVE IN A CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 30°42'03" AN ARC LENGTH OF 169.86 FEET (THE CHORD OF SAID CURVE BEARS NORTH 25°20'19" EAST A DISTANCE OF 167.83 FEET);
(11) THENCE NORTH 40°41'21" EAST A DISTANCE OF 197.49 FEET TO A POINT OF TANGENCY OF A 333.00 FOOT RADIUS CURVE WHOSE CENTER BEARS NORTH 49°18'39" WEST;
(12) THENCE FOLLOWING SAID CURVE IN A COUNTER CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 25°02'54" AN ARC LENGTH OF 145.58 FEET (THE CHORD OF SAID CURVE BEARS NORTH 28°09'54" EAST A DISTANCE OF 144.42 FEET);
(13) THENCE NORTH 15°38'27" EAST A DISTANCE OF 553.45 FEET TO A POINT OF TANGENCY OF A 1467.00 FOOT RADIUS CURVE WHOSE CENTER BEARS SOUTH 74°21'33" EAST;
(14) THENCE FOLLOWING SAID CURVE IN A CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 05°05'14" AN ARC LENGTH OF 130.25 FEET (THE CHORD OF SAID CURVE BEARS NORTH 18°11'04" EAST A DISTANCE OF 130.21 FEET);
(15) THENCE NORTH 20°43'41" EAST A DISTANCE OF 266.61 FEET TO A POINT OF TANGENCY OF A 1283.00 FOOT RADIUS CURVE WHOSE CENTER BEARS NORTH 69°16'19" WEST;
(16) THENCE FOLLOWING SAID CURVE IN A COUNTER CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 21°18'15" AN ARC LENGTH OF 477.06 FEET (THE CHORD OF SAID CURVE BEARS NORTH 10°04'34" EAST A DISTANCE OF 474.31 FEET);
(17) THENCE NORTH 00°34'34" WEST A DISTANCE OF 380.05 FEET TO A POINT OF TANGENCY OF A 117.00 FOOT RADIUS CURVE WHOSE CENTER BEARS NORTH 89°25'26" EAST;
(18) THENCE FOLLOWING SAID CURVE IN A CLOCKWISE DIRECTION THROUGH A CENTRAL ANGLE OF 59°36'04" AN ARC LENGTH OF 121.71 FEET (THE CHORD OF SAID CURVE BEARS NORTH 29°13'28" EAST A DISTANCE OF 116.29 FEET);

THENCE SOUTH 67°12'46" EAST A DISTANCE OF 146.09 FEET;
THENCE SOUTH 07°03'46" EAST A DISTANCE OF 456.62 FEET;
THENCE SOUTH 16°50'29" WEST A DISTANCE OF 726.90 FEET;
THENCE SOUTH 09°47'07" WEST A DISTANCE OF 718.45 FEET;
THENCE SOUTH 13°30'05" EAST A DISTANCE OF 880.32 FEET;
THENCE SOUTH 45°42'51" EAST A DISTANCE OF 839.53 FEET;
THENCE SOUTH 34°33'40" WEST A DISTANCE OF 181.11 FEET;
THENCE NORTH 85°15'04" WEST A DISTANCE OF 299.53 FEET;
THENCE NORTH 63°04'27" WEST A DISTANCE OF 222.50 FEET;
THENCE NORTH 54°16'09" WEST A DISTANCE OF 344.65 FEET;
THENCE SOUTH 51°22'36" WEST A DISTANCE OF 255.73 FEET;
THENCE SOUTH 24°43'14" WEST A DISTANCE OF 176.55 FEET;
THENCE SOUTH 07°52'21" WEST A DISTANCE OF 663.53 FEET;
THENCE SOUTH 23°02'45" EAST A DISTANCE OF 296.78 FEET;
THENCE SOUTH 50°29'56" EAST A DISTANCE OF 174.57 FEET;
THENCE SOUTH 20°45'54" WEST A DISTANCE OF 142.73 FEET;
THENCE NORTH 74°48'22" WEST A DISTANCE OF 111.13 FEET;
THENCE SOUTH 24°07'34" WEST A DISTANCE OF 140.25 FEET;
THENCE SOUTH 00°21'57" EAST A DISTANCE OF 265.43 FEET TO A POINT ON THE LATITUDINAL CENTERLINE OF SECTION 25;
THENCE SOUTH 89°38'03" WEST, ALONG SAID LATITUDINAL CENTERLINE OF SECTION 25, A DISTANCE OF 280.67 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 51.90 ACRES MORE OR LESS.




VICINITY MAP

## LEGEND

- FOUND SECTION CORNER
- FOUND 1/4 CORNER
- FOUND 2 INCH ALUMINUM CAP AFFIXED TO A 1/2 INCH REBAR STAMPED (P.O.L. 2009 LS 13023) SEE ROS RECORDED INST. NO. 206263
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- RIGHT-OF-WAY LINE FOR GEORGETOWN CANYON ROAD
- ENVIRONMENTAL COVENANT BOUNDARY LINE
- EXISTING BANK OF CREEK

## REFERENCE DOCUMENTS

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(S1 - ) BEARING AND DISTANCE PER RECORD OF SURVEY INST. NO. 206263 FOR NU-WEST MINING INC.

## GRAPHIC SCALE

-200 0 100 200

(IN FEET)
1 inch = 200 feet

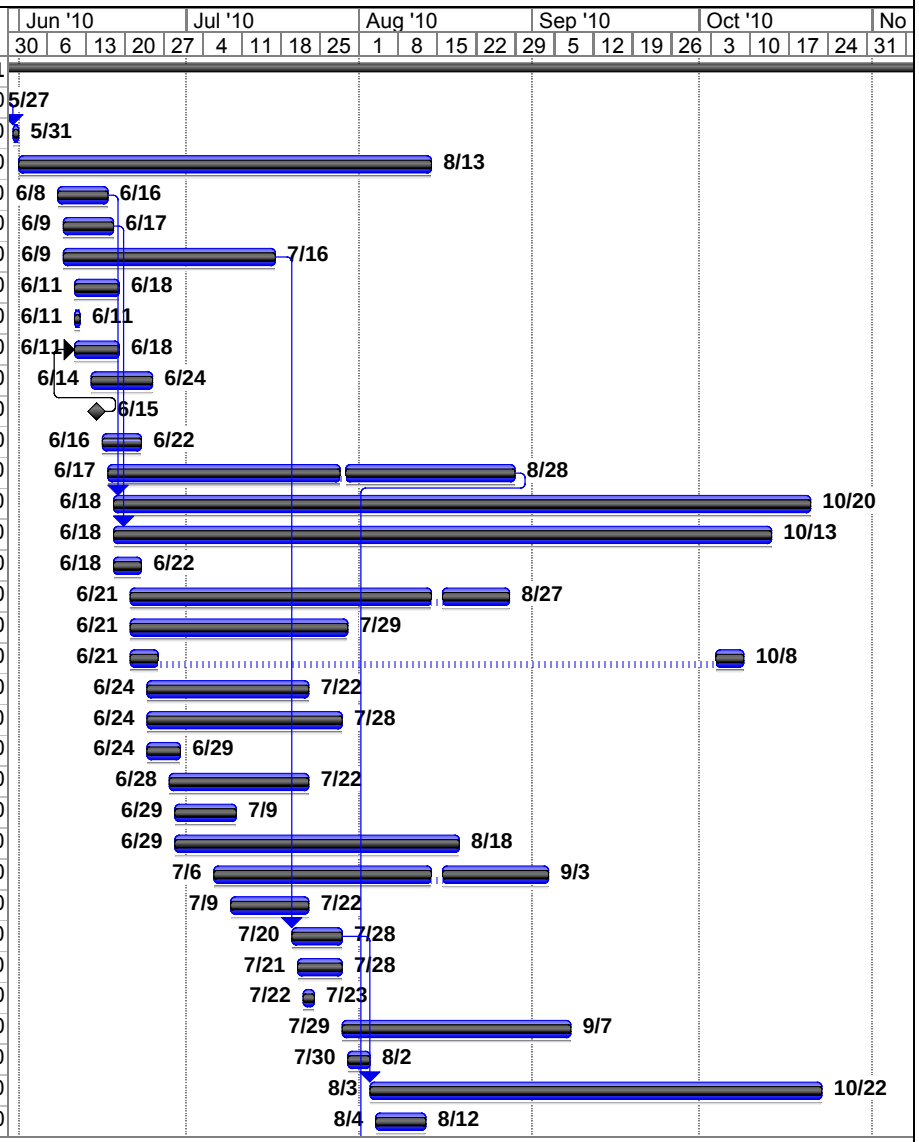
## BASIS OF BEARING

PER CENTRAL MERIDIAN OF EAST ZONE OF IDAHO STATE PLANE COORDINATE SYSTEM

Figure 1-5B

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| Task Name | Start | Finish |
|---|---|---|
| **RAP Phase II CMP Bypass Stream Construction** | **Thu 5/27/10** | **Tue 1/25/11** |
| Notify IDWR | Thu 5/27/10 | Thu 5/27/10 |
| Notify USACE | Mon 5/31/10 | Mon 5/31/10 |
| Cty. Dust Suppression - Site and Bottom of Canyon | Tue 6/1/10 | Fri 8/13/10 |
| Site Mobilization | Tue 6/8/10 | Wed 6/16/10 |
| Install Pump in Well/Storage Tank Setup | Wed 6/9/10 | Thu 6/17/10 |
| CQA Oversight | Wed 6/9/10 | Fri 7/16/10 |
| Grade Areas North and South of Site | Fri 6/11/10 | Fri 6/18/10 |
| Surveying | Fri 6/11/10 | Fri 6/11/10 |
| Grading & Preparation for Fill | Fri 6/11/10 | Fri 6/18/10 |
| Test Pits | Mon 6/14/10 | Thu 6/24/10 |
| Construction Kickoff Meeting | Tue 6/15/10 | Tue 6/15/10 |
| Fence Removal | Wed 6/16/10 | Tue 6/22/10 |
| Quarry and Grade Rip Rap and Borrow | Thu 6/17/10 | Sat 8/28/10 |
| Continued SWPPP Inspections/Documentation | Fri 6/18/10 | Wed 10/20/10 |
| Construction Dust Suppression | Fri 6/18/10 | Wed 10/13/10 |
| Clean out Sediment Pond | Fri 6/18/10 | Tue 6/22/10 |
| SESC/BMP's | Mon 6/21/10 | Fri 8/27/10 |
| Bulk Select Fill Production | Mon 6/21/10 | Thu 7/29/10 |
| Culverts | Mon 6/21/10 | Fri 10/8/10 |
| Compaction Testing | Thu 6/24/10 | Thu 7/22/10 |
| Bldg Foundation Removal & Misc Debris | Thu 6/24/10 | Wed 7/28/10 |
| Improve On-site Roads | Thu 6/24/10 | Tue 6/29/10 |
| Compacted Fill Placement at Sed Pond | Mon 6/28/10 | Thu 7/22/10 |
| Grubbing/Prestrip Slag on Channel Excavation Areas | Tue 6/29/10 | Fri 7/9/10 |
| Channel Excavation & Fill Placement | Tue 6/29/10 | Wed 8/18/10 |
| Ore Haul to Soda Springs | Tue 7/6/10 | Fri 9/3/10 |
| Rip Rap Screening, Sorting, and Stockpiling | Fri 7/9/10 | Thu 7/22/10 |
| CQA Oversight | Tue 7/20/10 | Wed 7/28/10 |
| Import Filter Stone & Stockpile | Wed 7/21/10 | Wed 7/28/10 |
| Obtain/Testing Geotechnical Samples | Thu 7/22/10 | Fri 7/23/10 |
| Septic Tank Removal - Build Containment/React Phosphorus | Thu 7/29/10 | Tue 9/7/10 |
| USFS Road Cut | Fri 7/30/10 | Mon 8/2/10 |
| CQA Oversight | Tue 8/3/10 | Fri 10/22/10 |
| Import Road Base | Wed 8/4/10 | Thu 8/12/10 |




Project: Phase II CMP Bypass Channe
Date: Thu 12/16/10

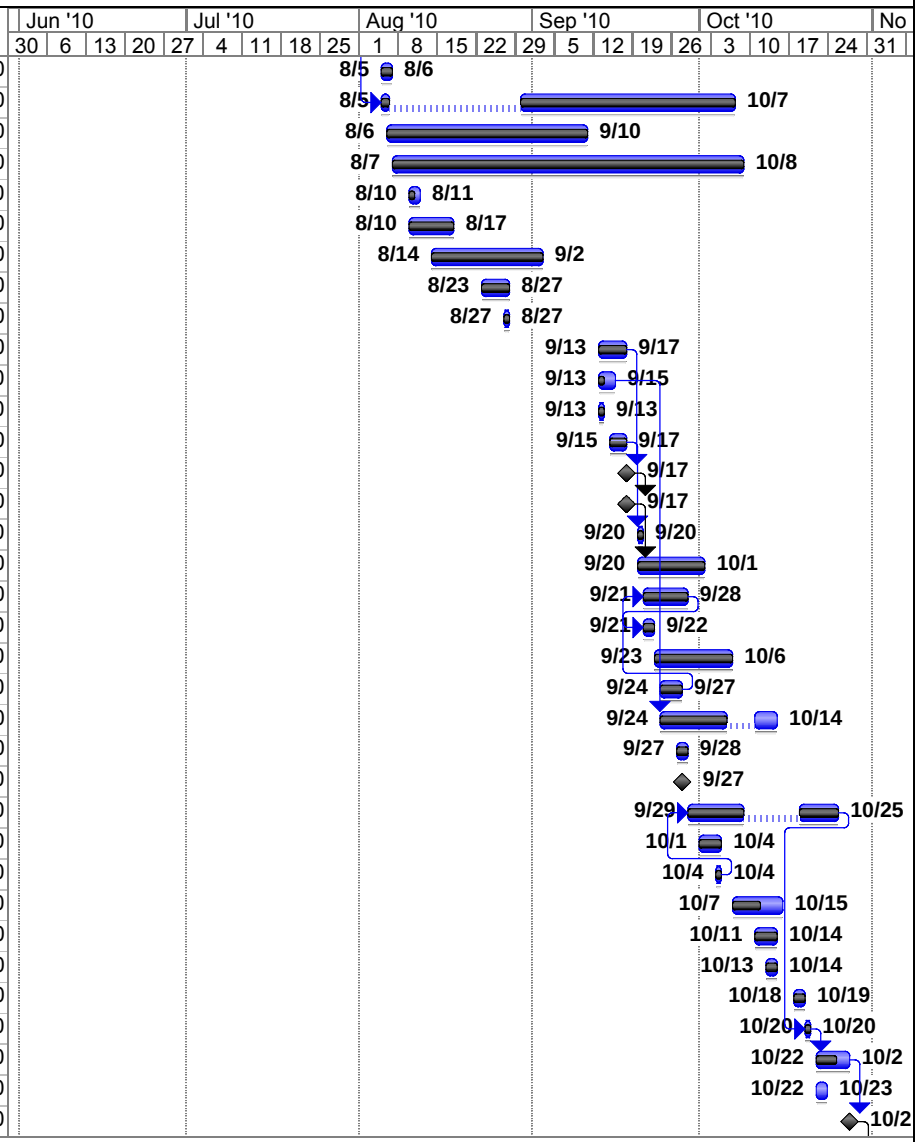
| | | |
|---|---|---|
| Task | Rolled Up Task | External Tasks |
| Progress | Rolled Up Milestone | Project Summary |
| Milestone | Rolled Up Progress | Group By Summary |
| Summary | Split | Deadline |



FIGURE 2-1

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| Task Name | Start | Finish |
|---|---|---|
| USFS/Site Road Base & Grading | Thu 8/5/10 | Fri 8/6/10 |
| Rock Placement - Filter Stone, Weirs, Sills, & Boulders | Thu 8/5/10 | Thu 10/7/10 |
| Obtain Soil Samples for Nutrient Amendment | Fri 8/6/10 | Fri 9/10/10 |
| Road Grading for Material Import | Sat 8/7/10 | Fri 10/8/10 |
| Surveying | Tue 8/10/10 | Wed 8/11/10 |
| Bypass System Setup and Cofferdam | Tue 8/10/10 | Tue 8/17/10 |
| Clean out Remaining ore in Phosphoria | Sat 8/14/10 | Thu 9/2/10 |
| Cover C&D landfill | Mon 8/23/10 | Fri 8/27/10 |
| Easement Surveying | Fri 8/27/10 | Fri 8/27/10 |
| Place Erosion Control Blankets | Mon 9/13/10 | Fri 9/17/10 |
| Tank Spring Channel Excavation | Mon 9/13/10 | Wed 9/15/10 |
| Abandon Tank Spring Drop Inlet | Mon 9/13/10 | Mon 9/13/10 |
| Sediment Pond Culvert Placement | Wed 9/15/10 | Fri 9/17/10 |
| Notify IDWR Prior to Channel Diversion from CMP | Fri 9/17/10 | Fri 9/17/10 |
| IDWR Inspection | Fri 9/17/10 | Fri 9/17/10 |
| Complete Phosphoria Channel to Sed pond | Mon 9/20/10 | Mon 9/20/10 |
| Prepare Growth Medium and Benches for Reclamation (Tops | Mon 9/20/10 | Fri 10/1/10 |
| CMP Crossings | Tue 9/21/10 | Tue 9/28/10 |
| Tunnel Abandonment | Tue 9/21/10 | Wed 9/22/10 |
| Install Fence and Gates | Thu 9/23/10 | Wed 10/6/10 |
| CMP Abandonment | Fri 9/24/10 | Mon 9/27/10 |
| Hydro seeding (Spoil Areas, Dud Hollow, Phosphoria,Channe | Fri 9/24/10 | Thu 10/14/10 |
| Surveying | Mon 9/27/10 | Tue 9/28/10 |
| Survey New ROW for Easement Fence Alignment | Mon 9/27/10 | Mon 9/27/10 |
| Hydro seeding & ECB (Channel) | Wed 9/29/10 | Mon 10/25/10 |
| Tank Spring Filter Stone & Rip Rap | Fri 10/1/10 | Mon 10/4/10 |
| Syncline Spring Filter Stone & Rip Rap | Mon 10/4/10 | Mon 10/4/10 |
| Bypass System Removal | Thu 10/7/10 | Fri 10/15/10 |
| Finish Rip Rap in Phosphoria | Mon 10/11/10 | Thu 10/14/10 |
| Reclaim Borrow Areas | Wed 10/13/10 | Thu 10/14/10 |
| Surveying | Mon 10/18/10 | Tue 10/19/10 |
| Stormwater Inspection | Wed 10/20/10 | Wed 10/20/10 |
| Demobilization | Fri 10/22/10 | Wed 10/27/10 |
| Willow, Alder, Dogwood, & Snowberry Planting | Fri 10/22/10 | Sat 10/23/10 |
| Project Complete | Wed 10/27/10 | Wed 10/27/10 |




Project: Phase II CMP Bypass Channe
Date: Thu 12/16/10

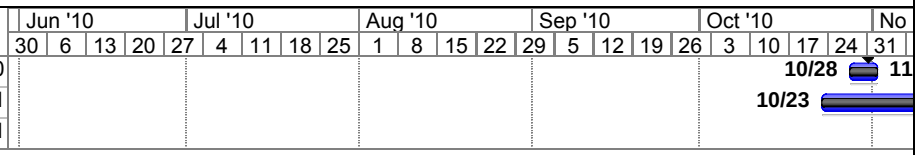
| | | |
|---|---|---|
| Task | Rolled Up Task | External Tasks |
| Progress | Rolled Up Milestone | Project Summary |
| Milestone | Rolled Up Progress | Group By Summary |
| Summary | Split | Deadline |



FIGURE 2-1

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| Task Name | Start | Finish |
|---|---|---|
| Post Construction Photos Annual Report to USACE | Thu 10/28/10 | Mon 11/1/10 |
| Prepare Phase II Remedial Action Completion Report | Sat 10/23/10 | Tue 1/25/11 |
| Submit Phase II Remedial Action Completion Report | Tue 1/25/11 | Tue 1/25/11 |

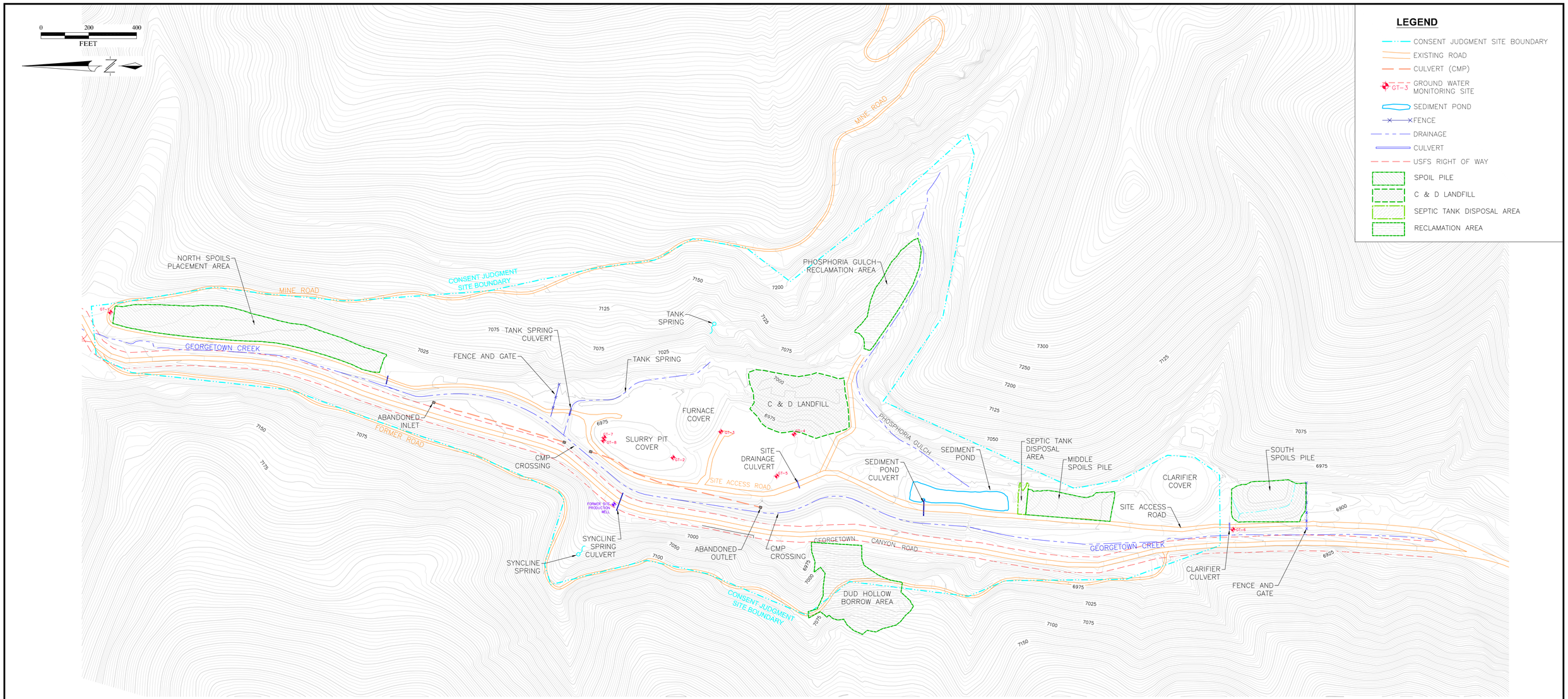



Project: Phase II CMP Bypass Channe
Date: Thu 12/16/10

| | | | | | |
|---|---|---|---|---|---|
| Task | | Rolled Up Task | | External Tasks | |
| Progress | | Rolled Up Milestone | ◇ | Project Summary | |
| Milestone | ◆ | Rolled Up Progress | | Group By Summary | |
| Summary | | Split | | Deadline | ⇩ |



FIGURE 2-1




GENERAL FIGURE NOTES:

1. THIS FIGURE MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED (I.E. 1:1000 ETC.) ARE BASED ON A 22"X34" FORMAT PRINT.
2. SITE SURVEYS FROM 1999, 2009, AND 2010 WERE PROVIDED BY NU-WEST.
3. CONTOUR INTERVAL IS 5 FEET.

*Engineer's Certification*

NORWEST CORPORATION

NU-WEST INDUSTRIES, INC.

FIGURE 4-1
CMP BYPASS CHANNEL SITE

| | | | |
|---|---|---|---|
| DESIGN: NORWEST | DATE: Dec 16, 2010 | Layer Manager: ------ | |
| DRAWN: JLS | SCALE: As Shown | PROJECT NO. 0-00 | |
| DRAWING: AsBuilt CMP Bypass Channel.dwg | | | |

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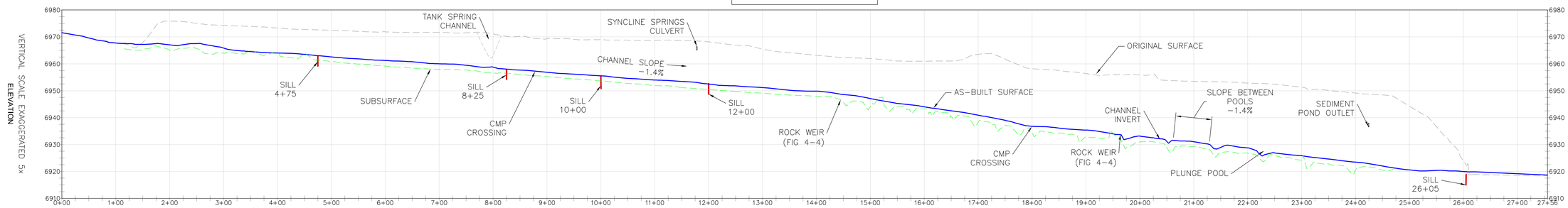
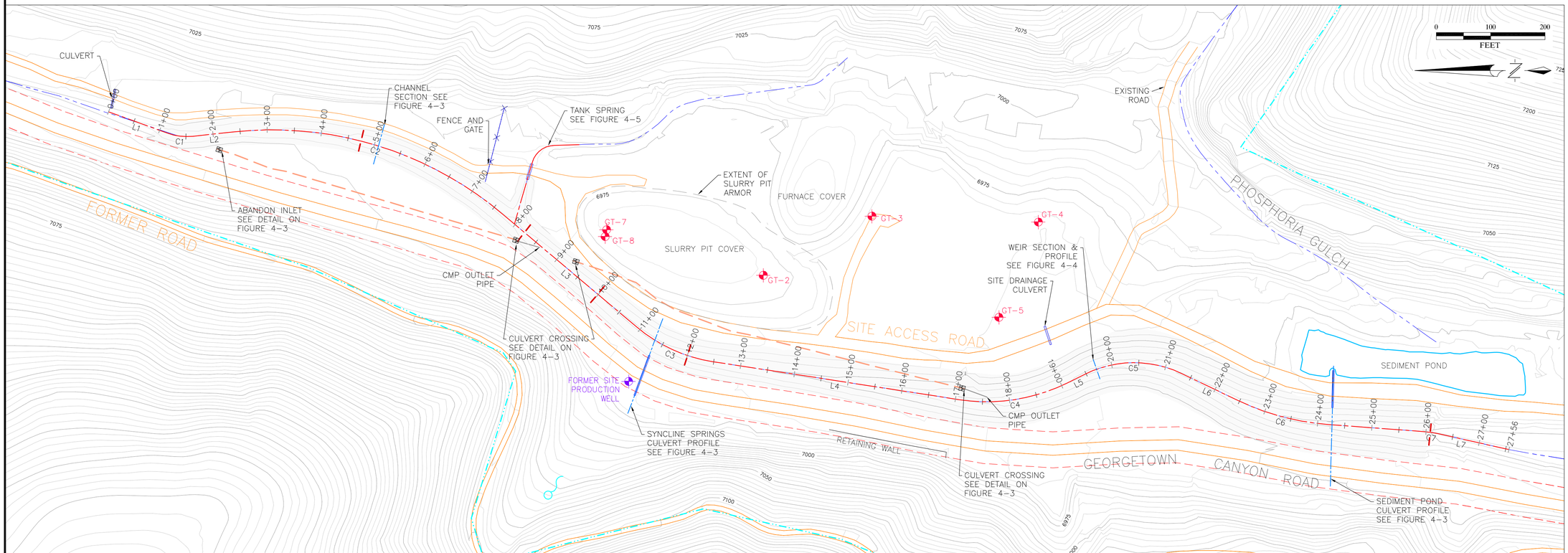
## CMP BYPASS CHANNEL




HORIZONTAL SCALE 1"=100'




### LEGEND

- CULVERT (CMP APPROXIMATE LOCATION)
- CONSENT JUDGMENT SITE BOUNDARY
- EXISTING ROAD
- GT-3 GROUND WATER MONITORING SITE
- SILL
- SEDIMENT POND
- FENCE
- CREEK
- CULVERT
- 25+00 26+00 27+00 CHANNEL ALIGNMENT
- USFS RIGHT OF WAY
- SPRING

| CMP BYPASS | | | | | | | |
|---|---|---|---|---|---|---|---|
| NUMBER | START STATION | END STATION | NORTHING | EASTING | LENGTH | RADIUS | LINE / CHORD DIRECTION |
| L1 | 0+00 | 1+15 | 317714 | 900300 | 115.0 | | S19° 58' 15.17"W |
| C1 | | | | | 47.7 | 105.0 | SOUTH6° 58' 06.27"WEST |
| L2 | 1+63 | 2+40 | 317559 | 900255 | 77.7 | | S6° 02' 02.62"E |
| C2 | | | | | 528.9 | 656.8 | SOUTH17° 02' 03.03"WEST |
| L3 | 7+69 | 10+93 | 316989 | 900113 | 323.6 | | S40° 06' 08.69"W |
| C3 | | | | | 155.2 | 283.8 | SOUTH24° 26' 10.76"WEST |
| L4 | 12+48 | 17+07 | 316602 | 899841 | 458.9 | | S8° 46' 12.82"W |
| C4 | | | | | 204.2 | 333.6 | SOUTH8° 45' 53.24"EAST |
| L5 | 19+11 | 19+49 | 315950 | 899802 | 37.3 | | S26° 17' 59.30"E |
| C5 | | | | | 182.9 | 202.0 | SOUTH0° 21' 57.79"EAST |
| L6 | 21+31 | 22+47 | 315740 | 899819 | 115.2 | | S25° 34' 03.72"W |
| C6 | | | | | 172.8 | 464.8 | SOUTH14° 54' 53.17"WEST |
| C7 | | | | | 23.0 | 155.4 | SOUTH8° 29' 41.22"WEST |
| L7 | 26+22 | 27+56 | 315268 | 899708 | 133.8 | | S12° 43' 39.82"W |

GENERAL FIGURE NOTES:

1. THIS FIGURE MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED (I.E. 1:1000 ETC.) ARE BASED ON A 22"X34" FORMAT PRINT.
2. FIGURE NOTES ARE NOT INTENDED TO BE ALL INCLUSIVE. REFER TO SPECIFICATIONS.
3. SITE SURVEYS FROM 1999, 2009, AND 2010 WERE PROVIDED BY NU-WEST.
4. CONTOURS SHOWN ARE AT COMPLETION OF CONSTRUCTION.
5. CONTOUR INTERVAL IS 5 FEET.

*Engineer's Certification*

NORWEST CORPORATION

NU-WEST INDUSTRIES, INC.

# FIGURE 4-2
# CMP BYPASS CHANNEL PROFILE AND PLAN VIEW

| | | | |
|---|---|---|---|
| DESIGN: NORWEST | DATE: Dec 16, 2010 | Layer Manager: ----- | |
| DRAWN: JLS | SCALE: As Shown | PROJECT NO. 0-00 | |
| DRAWING: AsBuilt CMP Bypass Channel.dwg | | | |

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GENERAL FIGURE NOTES:

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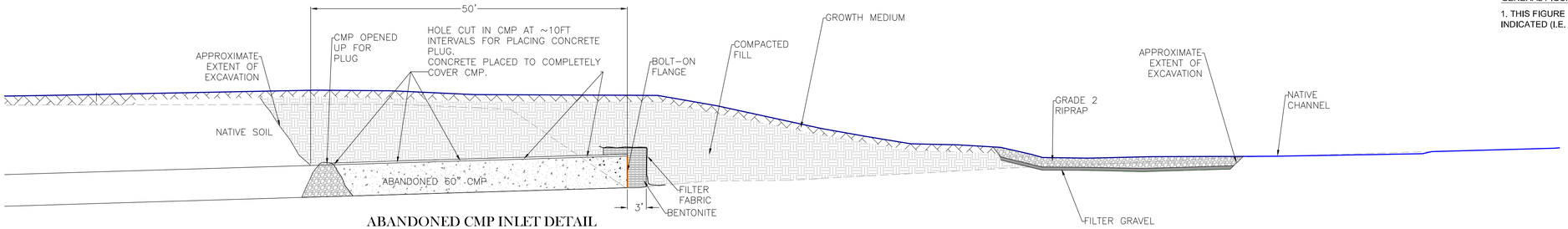
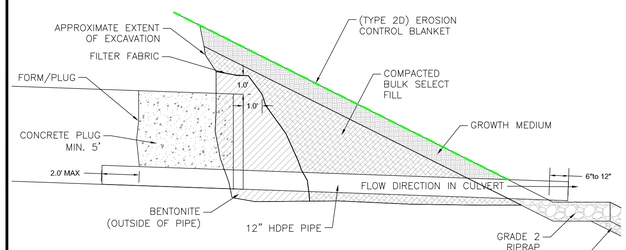



## ABANDONED CMP INLET DETAIL

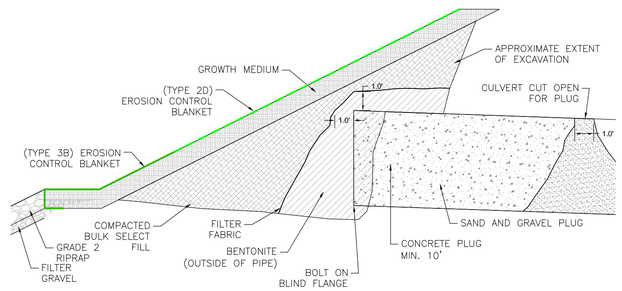
SCALE: 1"=10'




## CMP OUTLET DETAIL (TYPICAL)

SCALE: 1"=4'

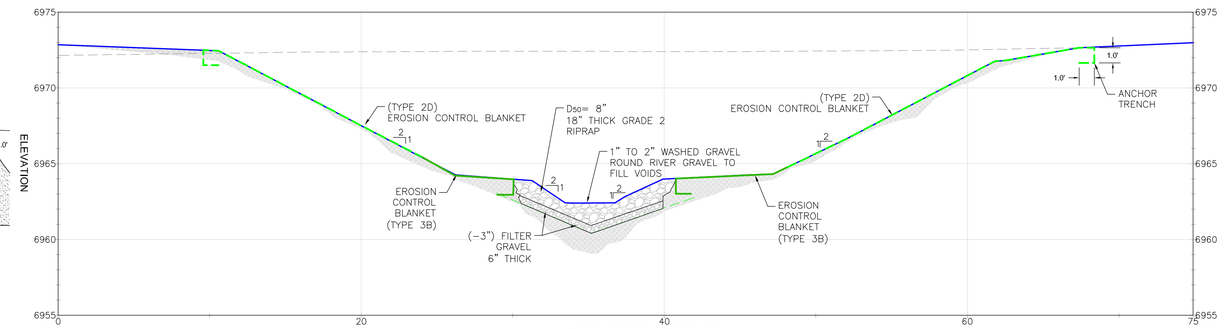
(LOOKING UPSTREAM)




## CMP CROSSING INLET DETAIL (TYPICAL)

SCALE: 1"=4'

(LOOKING UPSTREAM)

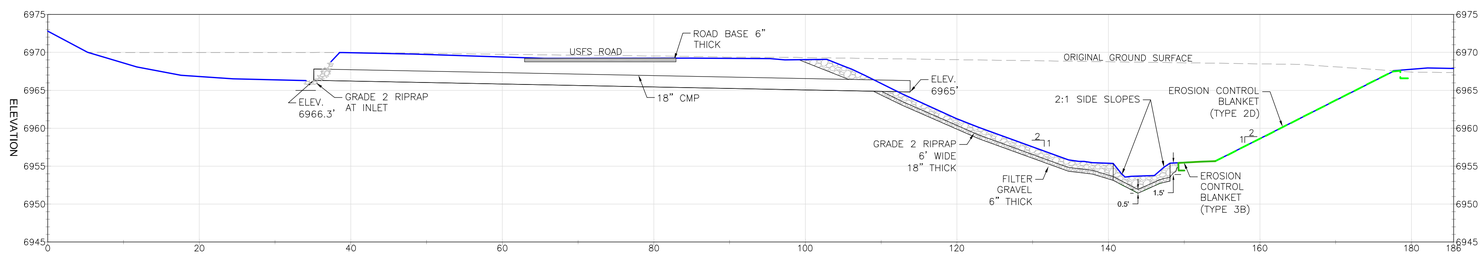



## CHANNEL DETAIL

5+08

SCALE: 1"=5'

(LOOKING UPSTREAM)

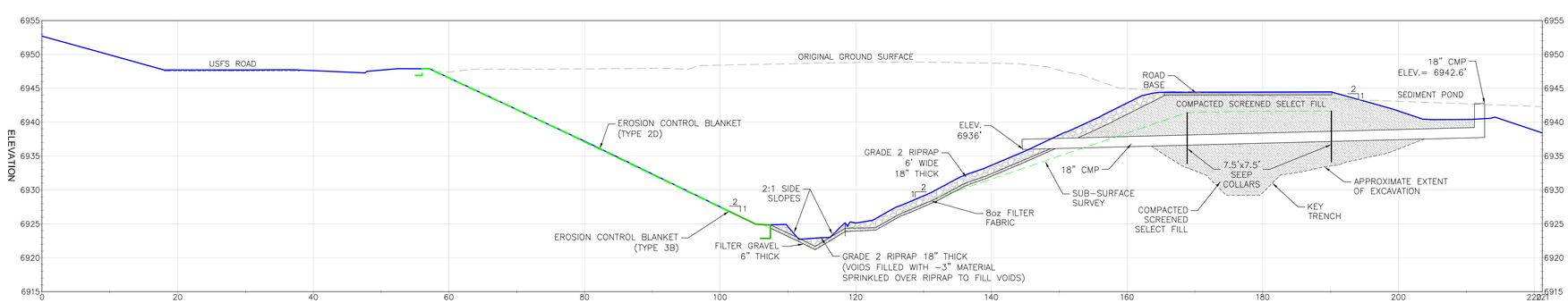



## SYNCLINE SPRING CULVERT OUTLET DETAIL

11+33

SCALE: 1"=10'

(LOOKING UPSTREAM)




## CHANNEL AND SEDIMENT POND DETAIL

24+26

SCALE: 1"=10'

(LOOKING UPSTREAM)

Engineer's Certification

NORWEST CORPORATION

NU-WEST INDUSTRIES, INC.

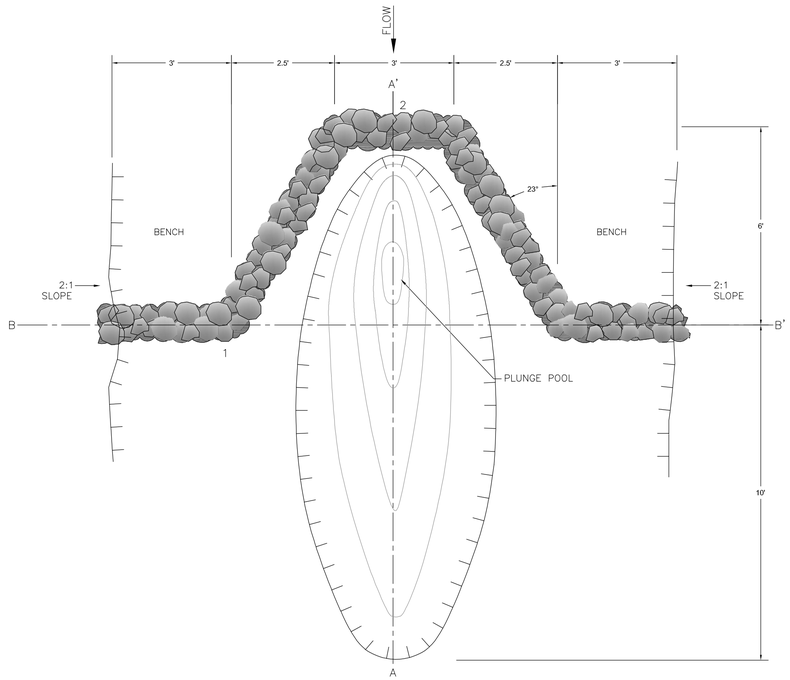
FIGURE 4-3
CMP BYPASS CHANNEL
AS-BUILT SECTIONS AND DETAILS

| | | | |
|---|---|---|---|
| DESIGN: NORWEST | DATE: Dec 16, 2010 | Layer Manager: ------ | |
| DRAWN: JLS | SCALE: As Shown | PROJECT NO. 0-00 | |
| DRAWING: AsBuilt CMP Bypass Channel.dwg | | | |

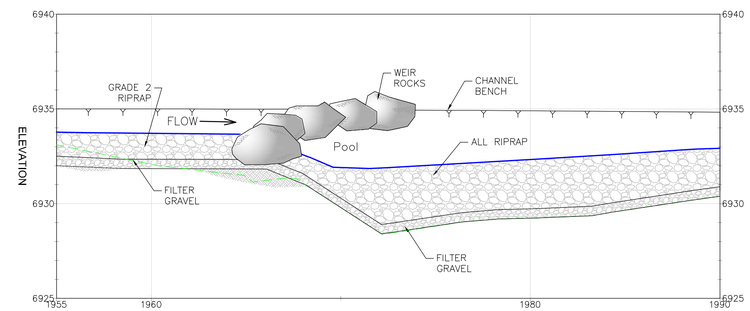
Dec 16, 2010 - 12:00pm/C:\Apps\Acad\Acad\Acad\R14\Acad\R14\CMP Bypass Channel.dwg

GENERAL FIGURE NOTES:

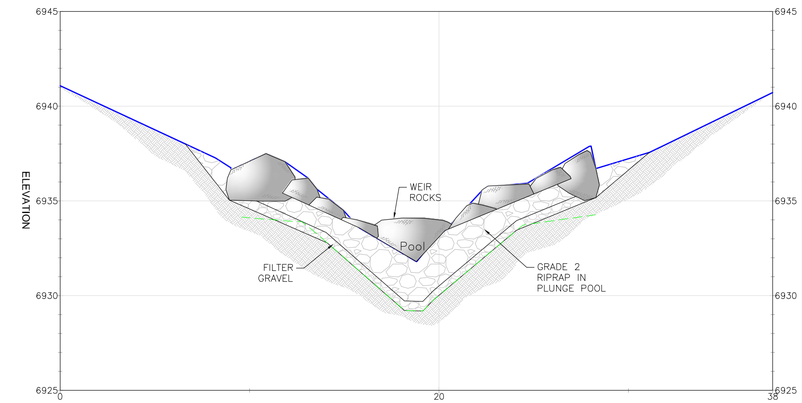
1. THIS FIGURE MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED (I.E. 1:1000 ETC.) ARE BASED ON A 22"X34" FORMAT PRINT.



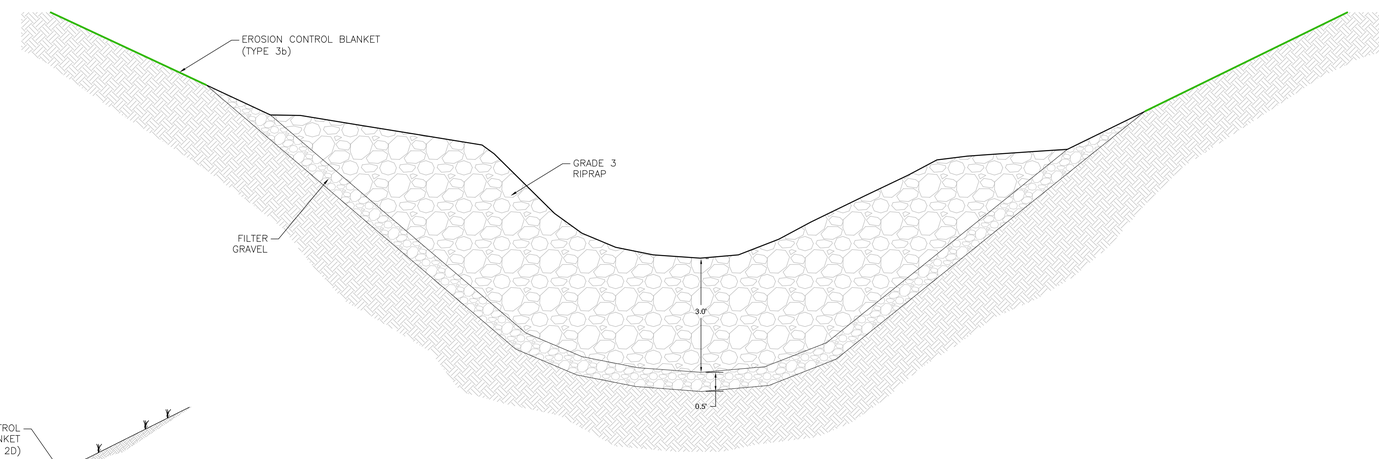

ROCK WEIR PLAN VIEW DETAIL (TYPICAL)
N.T.S.



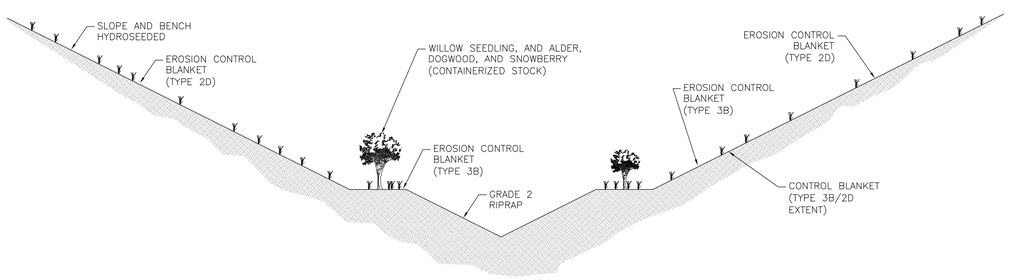

ROCK WEIR SECTION A - A' DETAILS (TYPICAL)
N.T.S.




ROCK WEIR SECTION B - B' DETAILS (TYPICAL)
N.T.S.




SILL DETAIL
SCALE: 1"=2'
(LOOKING UPSTREAM)




VEGETATION DETAIL (TYPICAL)
SCALE: 1"=4'
(LOOKING UPSTREAM)

GENERAL FIGURE NOTES:

1. THIS FIGURE MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED (I.E. 1:1000 ETC.) ARE BASED ON A 22"X34" FORMAT PRINT.

2.FIGURE NOTES ARE NOT INTENDED TO BE ALL INCLUSIVE. REFER TO SPECIFICATIONS.

Engineer's Certification

NORWEST
CORPORATION

NU-WEST
INDUSTRIES, INC.

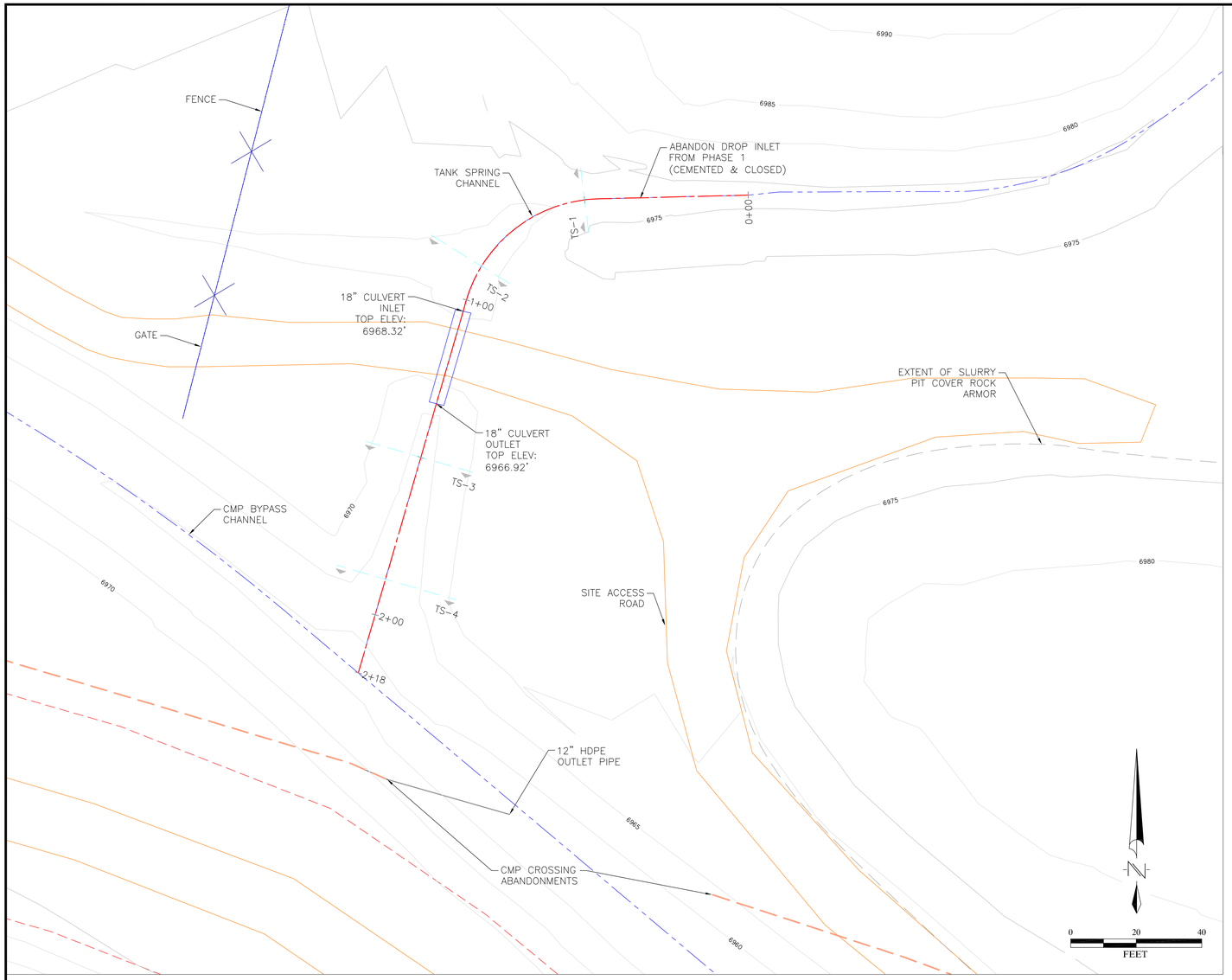
FIGURE 4-4
ROCK WEIR, SILL, AND
RANDOM BOULDER
AS-BUILT SECTIONS AND
DETAILS

| | | | |
|---|---|---|---|
| DESIGN: NORWEST | DATE: Dec 16, 2010 | Layer Manager: ----- | |
| DRAWN: JLS | SCALE: As Shown | PROJECT NO. 0-00 | |
| DRAWING: AsBuilt CMP Bypass Channel.dwg | | | |

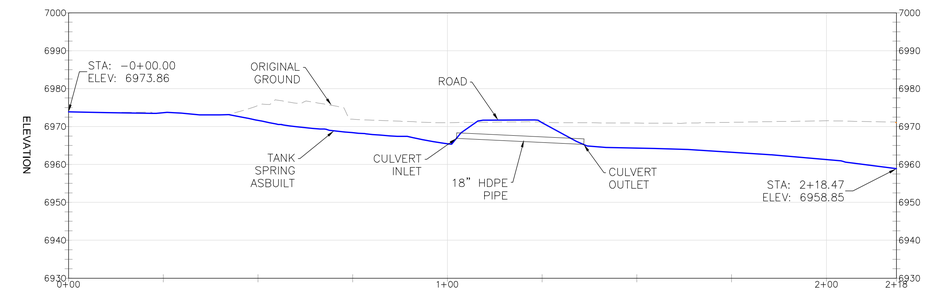
Dec 16, 2010 - 12:06pm G:\Agdata\Archives\AsBuilt CMP\AsBuilt CMP Bypass Channel.dwg

GENERAL FIGURE NOTES:

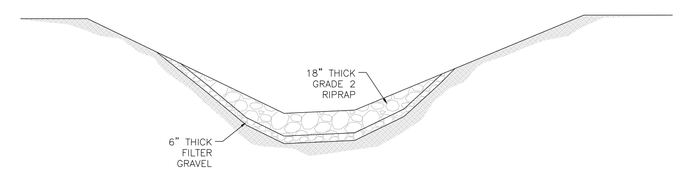
1. THIS FIGURE MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED (I.E. 1:1000 ETC.) ARE BASED ON A 22"X34" FORMAT PRINT.
2. SITE SURVEYS FROM 1999, 2009, AND 2010 WERE PROVIDED BY NU-WEST.
3. CONTOUR INTERVAL IS 5 FEET.



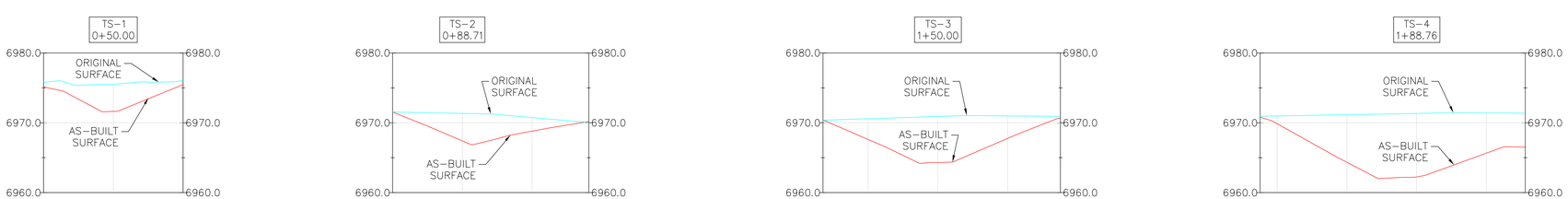

TANK SPRING PLAN VIEW
SCALE: 1"=20'




TANK SPRING PROFILE
SCALE: 1"=20'




TANK SPRING CHANNEL DETAILS (TYPICAL)
SCALE: 1"=5'




TANK SPRING SECTION VIEWS
SCALE: 1"=50'

Engineer's Certification

NORWEST CORPORATION

NU-WEST INDUSTRIES, INC.

FIGURE 4-5
TANK SPRINGS ASBUILT DETAILS

| | | | |
|---|---|---|---|
| DESIGN: NORWEST | DATE: Dec 16, 2010 | Layer Manager: ---- | |
| DRAWN: JLS | SCALE: As Shown | PROJECT NO. 0-00 | |
| DRAWING: AsBuilt CMP Bypass Channel.dwg | | | |

Dec 16, 2010 - 12:43pm U:\Agua\Archives\AsBuilt CMP\AsBuilt CMP Bypass Channel.dwg

# CENTRAL FARMERS GEORGETOWN CANYON OPERATION AND MAINTENANCE AND POST- CLOSURE SCHEDULE THROUGH 2015

| Task Name | 2011 H1 | 2011 H2 | 2012 H1 | 2012 H2 | 2013 H1 | 2013 H2 | 2014 H1 | 2014 H2 | 2015 H1 | 2015 H2 | 2016 H1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 1st Q Site Inspection O&M Monitoring | /15 3/15 | | | | | | | | | | |
| 2010 Annual Report | 28 4/1 | | | | | | | | | | |
| Transmit Annual Report | 4/1 | | | | | | | | | | |
| 2011 After Snowmelt Monitoring | 4/22 4/22 | | | | | | | | | | |
| 2011 2nd Q Site Inspection O&M Monitoring | 5/16 5/17 | | | | | | | | | | |
| 2011 1st Round Settlement Marker Survey | 6/15 6/15 | | | | | | | | | | |
| 2011 1st Round Surface Water Monitoring | 6/15 6/15 | | | | | | | | | | |
| 2011 1st Round Surface Water Sampling | 6/16 6/16 | | | | | | | | | | |
| 2011 1st Round Ground Water Sampling | 6/16 6/17 | | | | | | | | | | |
| 2011 3rd Q Site Inspection O&M Monitoring | | 9/5 9/5 | | | | | | | | | |
| 2011 2nd Round Settlement Marker Survey | | 9/5 9/5 | | | | | | | | | |
| 2011 2nd Round Surface Water Monitoring | | 10/3 10/3 | | | | | | | | | |
| 2011 2nd Round Surface Water Sampling | | 10/4 10/4 | | | | | | | | | |
| 2011 2nd Round Ground Water Sampling | | 10/5 10/6 | | | | | | | | | |
| 2011 4th Q Site Inspection O&M Monitoring | | 10/7 10/7 | | | | | | | | | |
| | | | | | | | | | | | |
| 2012 1st Q Site Inspection O&M Monitoring | | | 3/15 3/15 | | | | | | | | |
| 2011 Annual Report | | | 2/28 4/2 | | | | | | | | |
| Transmit Annual Report | | | 4/2 | | | | | | | | |
| 2012 2nd Q Site Inspection O&M Monitoring | | | 5/16 5/17 | | | | | | | | |
| 2012 1st Round Settlement Marker Survey | | | 6/15 6/15 | | | | | | | | |
| 2012 1st Round Surface Water Monitoring | | | 6/15 6/15 | | | | | | | | |
| 2012 1st Round Surface Water Sampling | | | 6/18 6/18 | | | | | | | | |
| 2012 1st Round Ground Water Sampling | | | 6/18 6/19 | | | | | | | | |
| 2012 3rd Q Site Inspection O&M Monitoring | | | | 9/5 9/5 | | | | | | | |
| 2012 2nd Round Settlement Marker Survey | | | | 9/5 9/5 | | | | | | | |
| 2012 2nd Round Surface Water Monitoring | | | | 10/3 10/3 | | | | | | | |
| 2012 2nd Round Surface Water Sampling | | | | 10/4 10/4 | | | | | | | |
| 2012 2nd Round Ground Water Sampling | | | | 10/5 10/8 | | | | | | | |
| 2012 4th Q Site Inspection O&M Monitoring | | | | 10/9 10/9 | | | | | | | |
| | | | | | | | | | | | |
| IDEQ 2-Year Evaluation of Site Monitoring | | | | 12/20 | 2/20 | | | | | | |
| IDEQ Decision on Changes in Monitoring Frequency | | | | | 2/20 | | | | | | |
| | | | | | | | | | | | |
| 2013 1st Q Site Inspection O&M Monitoring | | | | | 3/15 3/15 | | | | | | |

Project: 5 year post closure o&m inspe
Date: Mon 12/20/10

| | | | | | |
|---|---|---|---|---|---|
| Task | | Rolled Up Task | | External Tasks | |
| Progress | | Rolled Up Milestone | | Project Summary | |
| Milestone | | Rolled Up Progress | | Group By Summary | |
| Summary | | Split | | Deadline | |



FIGURE 5-1

# CENTRAL FARMERS GEORGETOWN CANYON OPERATION AND MAINTENANCE AND POST- CLOSURE SCHEDULE THROUGH 2015

| Task Name | 2011 H1 | 2011 H2 | 2012 H1 | 2012 H2 | 2013 H1 | 2013 H2 | 2014 H1 | 2014 H2 | 2015 H1 | 2015 H2 | 2016 H1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2012 Annual Report | | | | | 2/28 | 4/3 | | | | | |
| Transmit Annual Report | | | | | | 4/3 | | | | | |
| 2013 2nd Q Site Inspection O&M Monitoring | | | | | 5/16 | 5/17 | | | | | |
| 2013 1st Round Settlement Marker Survey | | | | | 6/17 | 6/17 | | | | | |
| 2013 1st Round Surface Water Monitoring | | | | | 6/17 | 6/17 | | | | | |
| 2013 1st Round Surface Water Sampling | | | | | 6/18 | 6/18 | | | | | |
| 2013 1st Round Ground Water Sampling | | | | | 6/18 | 6/19 | | | | | |
| 2013 3rd Q Site Inspection O&M Monitoring | | | | | 9/5 | 9/5 | | | | | |
| 2013 2nd Round Settlement Marker Survey | | | | | 9/5 | 9/5 | | | | | |
| 2013 2nd Round Surface Water Monitoring | | | | | 10/3 | 10/3 | | | | | |
| 2013 2nd Round Surface Water Sampling | | | | | 10/4 | 10/4 | | | | | |
| 2013 2nd Round Ground Water Sampling | | | | | 10/7 | 10/8 | | | | | |
| 2013 4th Q Site Inspection O&M Monitoring | | | | | 10/9 | 10/9 | | | | | |
| | | | | | | | | | | | |
| 2014 1st Q Site Inspection O&M Monitoring | | | | | | | 3/17 | 3/17 | | | |
| 2013 Annual Report | | | | | | | 2/28 | 4/3 | | | |
| Transmit Annual Report | | | | | | | | 4/3 | | | |
| 2014 2nd Q Site Inspection O&M Monitoring | | | | | | | 5/16 | 5/19 | | | |
| 2014 1st Round Settlement Marker Survey | | | | | | | 6/17 | 6/17 | | | |
| 2014 1st Round Surface Water Monitoring | | | | | | | 6/17 | 6/17 | | | |
| 2014 1st Round Surface Water Sampling | | | | | | | 6/18 | 6/18 | | | |
| 2014 1st Round Ground Water Sampling | | | | | | | 6/18 | 6/19 | | | |
| 2014 3rd Q Site Inspection O&M Monitoring | | | | | | | | 9/5 9/5 | | | |
| 2014 2nd Round Settlement Marker Survey | | | | | | | | 9/5 9/5 | | | |
| 2014 2nd Round Surface Water Monitoring | | | | | | | | 10/3 10/3 | | | |
| 2014 2nd Round Surface Water Sampling | | | | | | | | 10/6 10/6 | | | |
| 2014 2nd Round Ground Water Sampling | | | | | | | | 10/7 10/8 | | | |
| 2014 4th Q Site Inspection O&M Monitoring | | | | | | | | 10/9 10/9 | | | |
| | | | | | | | | | | | |
| 2015 1st Q Site Inspection O&M Monitoring | | | | | | | | | 3/17 3/17 | | |
| 2014 Annual Report | | | | | | | | | 3/2 4/3 | | |
| Transmit Annual Report | | | | | | | | | 4/3 | | |
| 2015 2nd Q Site Inspection O&M Monitoring | | | | | | | | | 5/18 5/19 | | |
| 2015 1st Round Settlement Marker Survey | | | | | | | | | 6/17 6/17 | | |
| 2015 1st Round Surface Water Monitoring | | | | | | | | | 6/17 6/17 | | |

Project: 5 year post closure o&m inspe
Date: Mon 12/20/10

| | | | | | |
|---|---|---|---|---|---|
| Task | | Rolled Up Task | | External Tasks | |
| Progress | | Rolled Up Milestone | | Project Summary | |
| Milestone | | Rolled Up Progress | | Group By Summary | |
| Summary | | Split | | Deadline | |



FIGURE 5-1

# CENTRAL FARMERS GEORGETOWN CANYON OPERATION AND MAINTENANCE AND POST- CLOSURE SCHEDULE THROUGH 2015

| Task Name | 2015 H1 | 2015 H2 | 2016 H1 |
|---|---|---|---|
| 2015 1st Round Surface Water Sampling | 6/18 | 6/18 | |
| 2015 1st Round Ground Water Sampling | 6/18 | 6/19 | |
| 2015 3rd Q Site Inspection O&M Monitoring | | 9/7 9/7 | |
| 2015 2nd Round Settlement Marker Survey | | 9/7 9/7 | |
| 2015 2nd Round Surface Water Monitoring | | 10/5 10/5 | |
| 2015 2nd Round Surface Water Sampling | | 10/6 10/6 | |
| 2015 2nd Round Ground Water Sampling | | 10/7 10/8 | |
| 2015 4th Q Site Inspection O&M Monitoring | | 10/9 10/9 | |
| | | | |
| IDEQ 5-year Evaluation of Annual Reporting and Monitoring | | 12/21 | 2/19 |
| IDEQ Decision on Changes in Analytical or Monitoring Frequency | | | 2/19 |

Project: 5 year post closure o&m inspe
Date: Mon 12/20/10

| | | |
|---|---|---|
| Task | Rolled Up Task | External Tasks |
| Progress | Rolled Up Milestone | Project Summary |
| Milestone | Rolled Up Progress | Group By Summary |
| Summary | Split | Deadline |



FIGURE 5-1

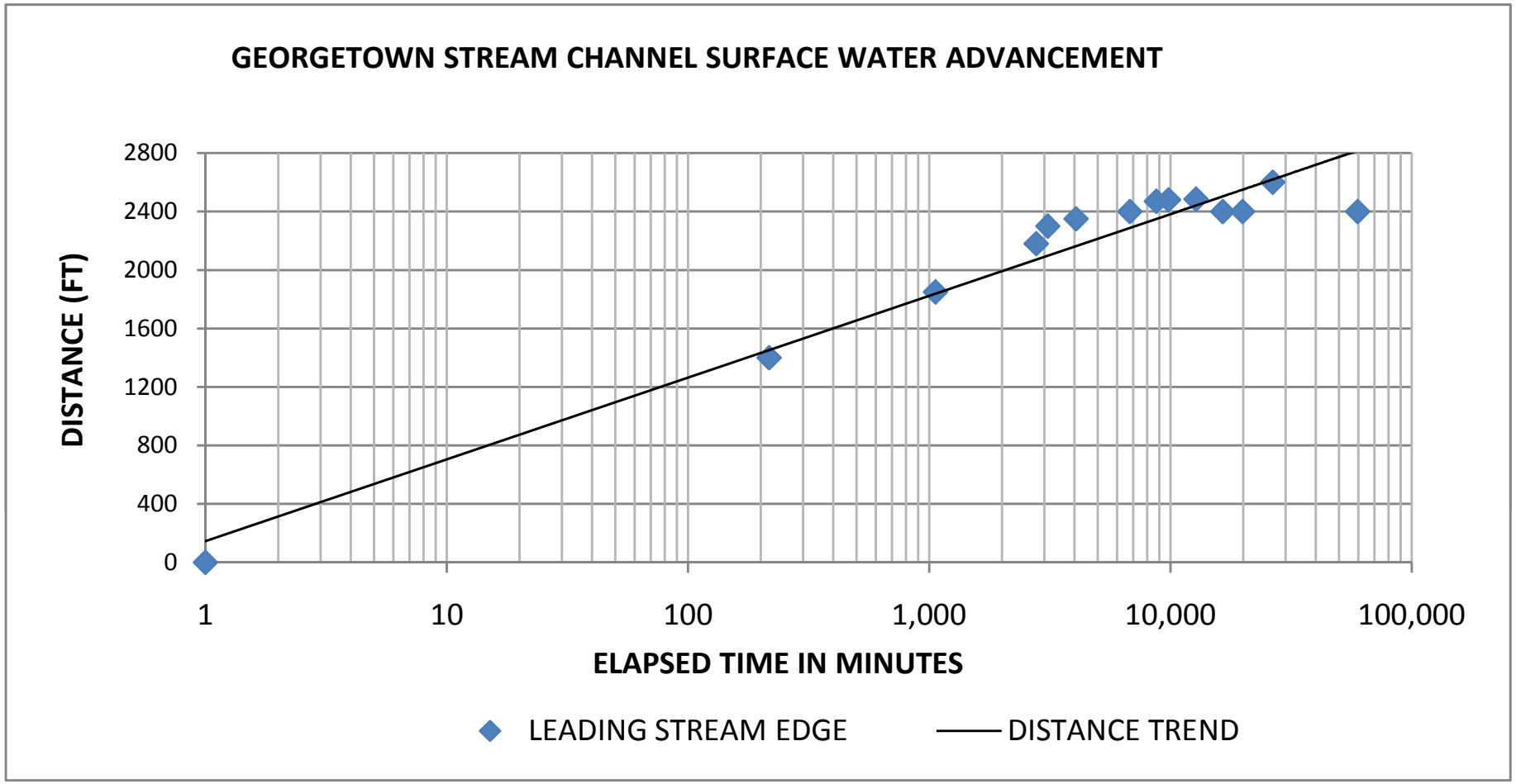

GEORGETOWN STREAM CHANNEL SURFACE WATER ADVANCEMENT
DISTANCE (FT)
2800
2400
2000
1600
1200
800
400
0
1
10
100
1,000
10,000
100,000
ELAPSED TIME IN MINUTES
LEADING STREAM EDGE
DISTANCE TREND

FIGURE 5-2

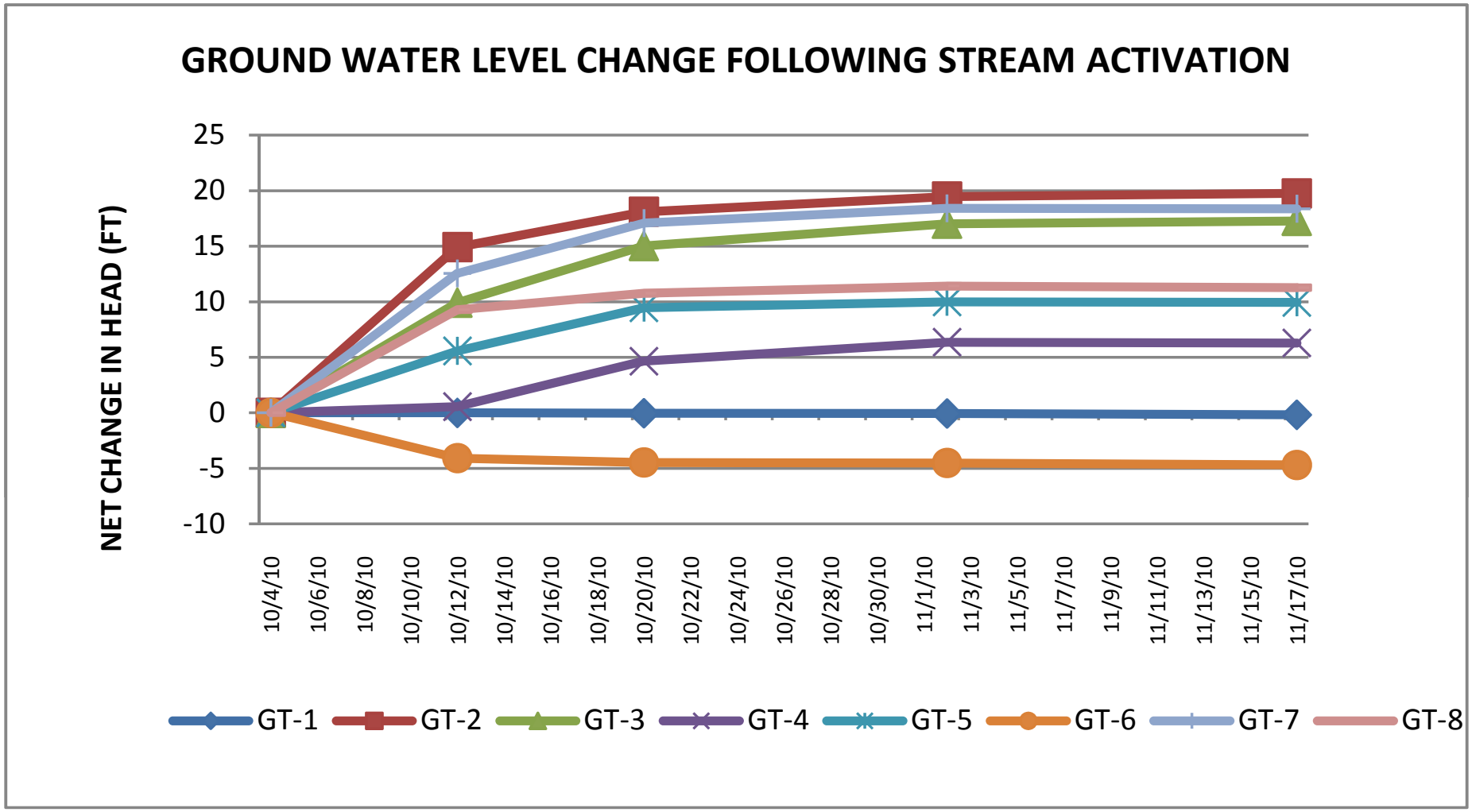
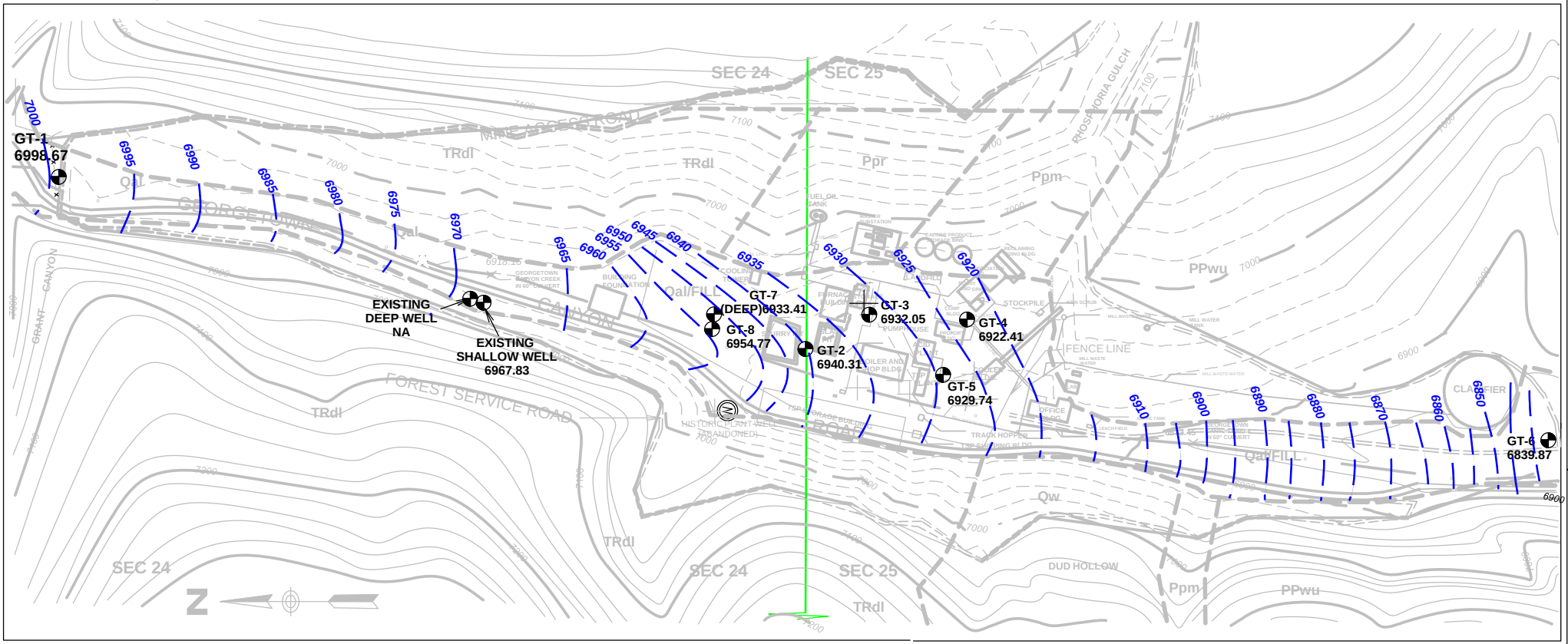

GROUND WATER LEVEL CHANGE FOLLOWING STREAM ACTIVATION
NET CHANGE IN HEAD (FT)
25
20
15
10
5
0
-5
-10
10/4/10
10/6/10
10/8/10
10/10/10
10/12/10
10/14/10
10/16/10
10/18/10
10/20/10
10/22/10
10/24/10
10/26/10
10/28/10
10/30/10
11/1/10
11/3/10
11/5/10
11/7/10
11/9/10
11/11/10
11/13/10
11/15/10
11/17/10
GT-1
GT-2
GT-3
GT-4
GT-5
GT-6
GT-7
GT-8

FIGURE 5-3




## KEY

GT-1
6998.67

MONITORING WELL AND
GROUND WATER LEVEL ELEVATION

6945

GROUND WATER LEVEL
ELEVATION AND CONTOUR

REFERENCES:

U.S.G.S., HARRINGTON PEAK, IDAHO 15 MINUTE
SERIES QUADRANGLE, 1970, PHOTOINSPECTED 1980.

RECORD OF SURVEY, AGRIUM U.S. INC., SEC 25,
T10S., R.44 E.B.M., HARPER-LEAVITT ENGINEERS, INC, JAN 13, 2003

GEOLOGY OF THE GEORGETOWN CANYON-SNOWDRIFT MOUNTAIN
AREA, SOUTHEASTERN IDAHO - USGS BULLETIN 1153, 1964, PLATE 4.

## GEOLOGIC LEGEND

**Qal - QUATERNARY ALLUVIUM**

**Qw - QUATERNARY HILL WASH**

**TRdl - TRIASSIC LOWER DINWOODY FM.**

**Ppr - PERMIAN REX CHERT FM.**

**Ppm - PERMIAN PHOSPHORIA FM.**

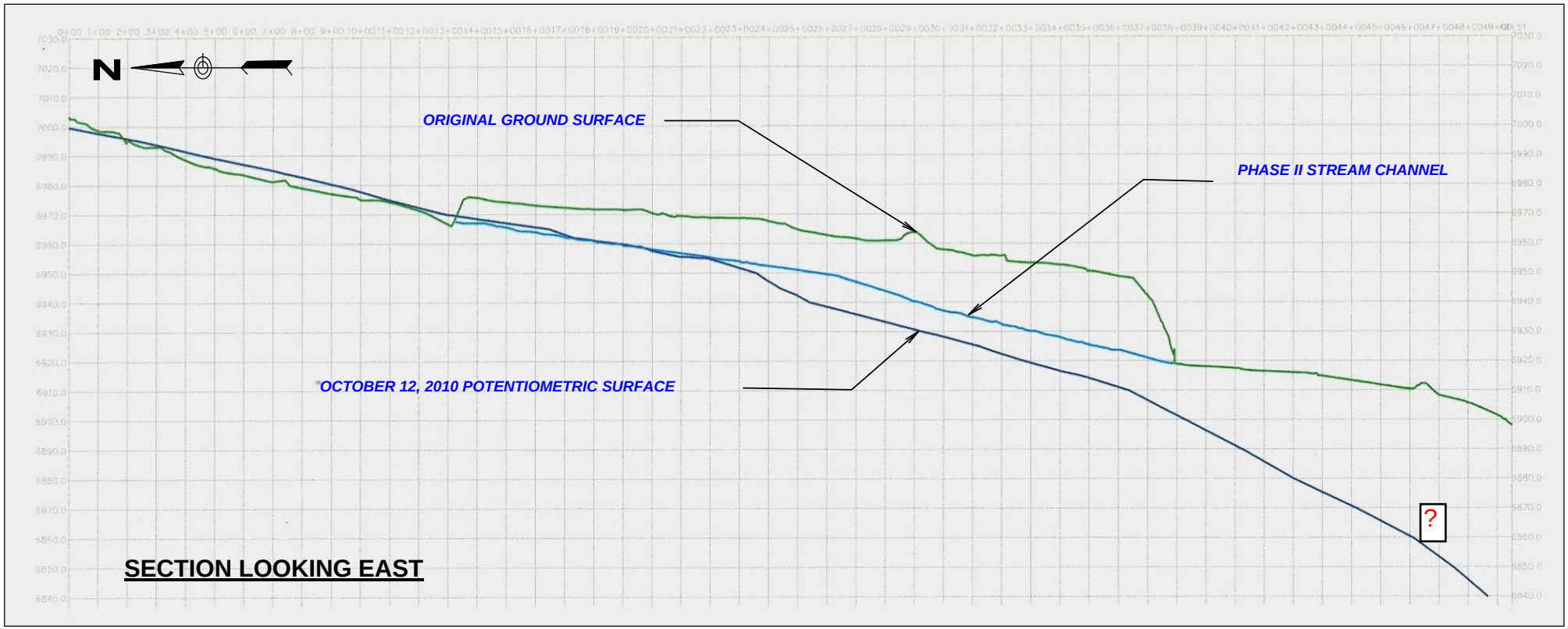
**PPwu - PERMIAN-PENNSYLVANIAN UPPER WELLS FM.**

## MAP SCALE

0 200 400 800

CONTOUR INTERVAL = 20 FEET

| | | | | |
|---|---|---|---|---|
| | PHASE II REMEDIAL ACTION COMPLETION REPORT | | | |
| | TITLE: GROUND WATER LEVEL MAP SHALLOW AQUIFER OCTOBER 12, 2010 CENTRAL FARMERS FERTILIZER FACILITY | | | |
| 12/18/10 | SIZE B | CAGE CODE | DWG NO | REV |
| DRAWN BY J.S. BROWN, P.G. | SCALE | NU-WEST MINING AND NU-WEST INDUSTRIES, INC. | SHEET FIGURE 5-4 | |




## MAP SCALE

0 250 500 1000

REFERENCES:

PAUL KOS, P.E. NORWEST 10/19/10

| | |
|---|---|
| | PHASE II REMEDIAL ACTION COMPLETION REPORT |
| | TITLE: POTENTIOMETRIC CROSS SECTION OF SITE SHALLOW AQUIFER OCTOBER 12, 2010 CENTRAL FARMERS FERTILIZER FACILITY |
| 12/18/10 | SIZE: B; CAGE CODE; DWG NO; REV |
| DRAWN BY J.S. BROWN, P.G. | SCALE; NU-WEST MINING AND NU-WEST INDUSTRIES, INC.; SHEET; FIGURE 5-5 |

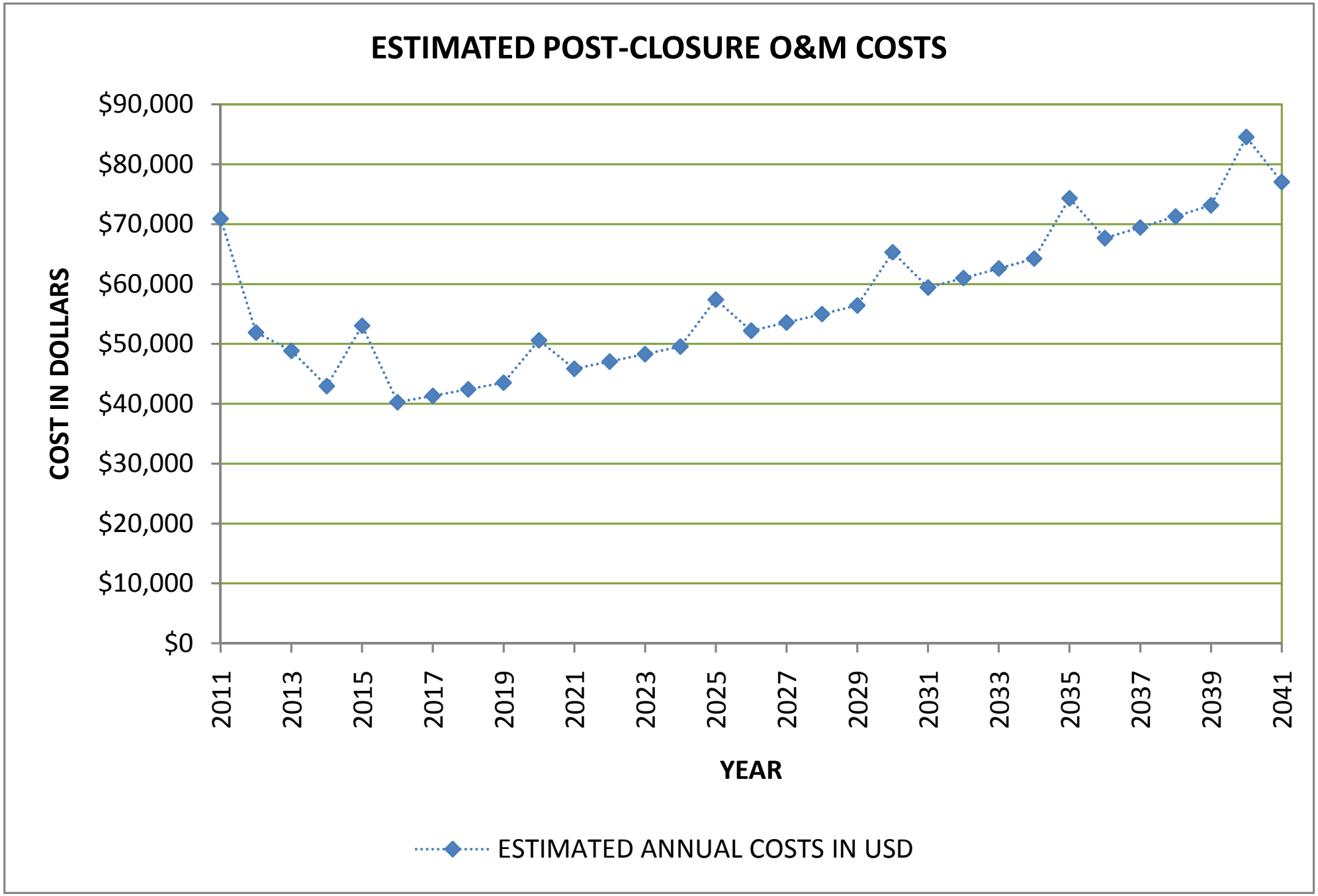

ESTIMATED POST-CLOSURE O&M COSTS
$90,000
$80,000
$70,000
$60,000
$50,000
$40,000
$30,000
$20,000
$10,000
$0
COST IN DOLLARS
2011
2013
2015
2017
2019
2021
2023
2025
2027
2029
2031
2033
2035
2037
2039
2041
YEAR
ESTIMATED ANNUAL COSTS IN USD

FIGURE 7-1

# APPENDIX A

## PHOTOGRAPHIC DOCUMENTATION OF PHASE II CONSTRUCTION BETWEEN JUNE 10 AND OCTOBER 22, 2010

# APPENDIX B - CQA DOCUMENTATION

## MATERIAL TRACKING TABLES
## MATERIAL SUBMITTALS
## MATERIAL SPECIFICATIONS
## MATERIAL DELIVERY INVENTORY
## MATERIALS CERTIFICATES
## SEED CERTIFICATIONS
## FERTILIZER TICKETS
## CERTIFICATES OF COMPLIANCE

# APPENDIX C

## HARPER & LEAVITT ENGINEERING COMPACTION TESTING DATA RESULTS
## HARPER & LEAVITT ENGINEERING SIEVE DATA TESTING RESULTS
## ACZ ANALYTICAL LABORATORY TEST RESULTS
## SOIL AMENDMENT TESTING RESULTS
## CONFLUENCE REPORT

# APPENDIX D

## PROGRESS CHARTS AND REPORTS TO IDEQ
## SUPERVISORS DAILY REPORTS

# APPENDIX E

## DAILY AIR MONITORING LOGS
## (ON DISK ONLY)

# APPENDIX F

# TEST PIT LOGS

# APPENDIX G

# OPERATIONS, MAINTENANCE AND MONITORING PLAN

# APPENDIX A

## PHOTOGRAPHIC DOCUMENTATION OF PHASE II CONSTRUCTION BETWEEN JUNE 10 AND OCTOBER 22, 2010

# TEST PITS

*SETTING UP SITE FOR PHASE II CONSTRUCTION PRIOR TO TEST PIT EXCAVATION - LOOKING SOUTHWEST- PHOTO DATED 06/11/10 GET LLC*

*EXCAVATING TEST PIT TP-110 - LOOKING NORTH - PHOTO DATED 06/14/10 GET LLC*

*FILLING IN TEST PIT TP-110 - LOOKING NORTHEAST- PHOTO DATED 06/15/10 GET LLC*

*EXCAVATING TEST PIT TP-113 AND CLEANING OUT SEDIMENT POND- LOOKING SOUTHEAST- PHOTO DATED 06/18/10 GET LLC*

*EXCAVATING TEST PIT TP-103 - LOOKING SOUTH- PHOTO DATED 06/17/10 GET LLC*

*STARTING TEST PIT TP-113 ADJACENT TO SEDIMENT POND IMMEDIATELY PRIOR TO CLEANOUT - LOOKING WEST- PHOTO DATED 06/18/10 GET LLC*

# SEDIMENT POND CONSTRUCTION

*GRUBBING WILLOWS FROM SEDIMENT POND - LOOKING NORTH- PHOTO DATED 06/18/10 GET LLC*

*EXCAVATING BERM AND ORE FROM THE SEDIMENT POND - LOOKING SOUTH - PHOTO DATED 06/24/10 GET LLC*

*CUTTING KEYWAY BELOW SEDIMENT POND BERM ACCESS ROAD - LOOKING NORTH- PHOTO DATED 06/24/10 GET LLC*

*PERFORMING COMPACTION AND COMPACTION TESTING ON KEYWAY FILL - LOOKING SOUTH- PHOTO DATED 06/24/10 GET LLC*

*COMPACTION TESTING ON LIFT 3 ON SEDIMENT POND BERM - LOOKING NORTH- PHOTO DATED 06/30/10 GET LLC*

*WATER FROM CONCRETE FOUNDATION EXCAVATION PUMPED TO THE SEDIMENT POND - LOOKING NORTH- PHOTO DATED 07/11/10 GET LLC*

## SEDIMENT POND CONSTRUCTION

*COMPACTING SOIL BACKFILL OVER SEDIMENT POND CULVERT AND ANTI-SEEPAGE COLLARS TO CMP RISER IN POND - LOOKING WEST- PHOTO DATED 10/09/10 GET LLC*

*CLOSER VIEW OF ANTI-SEEPAGE COLLAR AND BENTONITE SEAL- LOOKING WEST- PHOTO DATED 10/09/10 GET LLC*

*COMPACTING ROAD SURFACING GRAVEL ON SEDIMENT POND BERM SITE ACCESS ROAD - LOOKING NORTH- PHOTO DATED 08/03/10 GET LLC*

*RECLAIMED EAST BANK OF SEDIMENT POND FOLLOWING ABANDONMENT OF OLD OVERFLOW- LOOKING SOUTH - PHOTO DATED 08/25/10 GET LLC*

# CHANNEL EXCAVATION

*FIRST ENCOUNTERING SEPTIC TANK - LOOKING SOUTH- PHOTO DATED 06/30/10 GET LLC*

*CHANNEL AT SOUTH END TAKING SHAPE, BMPs IN PLACE - LOOKING SOUTH - PHOTO DATED 07/16/10 GET LLC*

*CMP INLET PRIOR TO CHANNEL EXCAVATION- LOOKING SOUTH-SOUTHEAST DATED 07/12/10 GET LLC*

*PLACING NEXT LIFT ON SOUTH SPOILS AREA - LOOKING SOUTH- PHOTO DATED 07/14/10 GET LLC*

*EXCAVATING AROUND 25+00 - LOOKING NORTH- PHOTO DATED 07/19/10 GET LLC*

*BEGINNING TO PLACE NORTH SPOILS AREA- LOOKING NORTH- PHOTO DATED 07/21/10 GET LLC*

## CHANNEL EXCAVATION

*EXPOSING CMP AND HISTORIC RISER CONNECTIONS TO PLANT - LOOKING SOUTH- PHOTO DATED 08/05/10 GET LLC*

*EXCAVATING "V" CHANNEL NEAR 4+00- LOOKING SOUTH-SOUTHWEST - PHOTO DATED 08/17/10 GET LLC*

*EXCAVATING CMP NEAR 25+80 - WATER IS RESIDUAL FROM LOW SPOTS IN BYPASSED CMP - LOOKING NORTH- PHOTO DATED 08/23/10 GET LLC*

*EXCAVATING NEAR 25+50 - LOOKING NORTH - PHOTO DATED 08/23/10 GET LLC*

*EXCAVATING CMP NEAR 25+80 - LOOKING NORTH- PHOTO DATED 08/23/10 GET*

*DENNIS DUEHREN OF THE USFS WITNESSING REMOVAL OF THE CMP- PHOTO DATED 08/24/10 GET LLC*

# CHANNEL EXCAVATION

*STOCKPILING CMP FOR RECYCLING - LOOKING NORTH - PHOTO DATED 08/24/10 GET LLC*

*CMP MOSTLY REMOVED BETWEEN LOWER CROSSING AND HISTORICAL OUTLET - LOOKING SOUTH- PHOTO DATED 08/25/10 GET LLC*

*CMP MOSTLY REMOVED UP TO LOWER CROSSING - LOOKING WEST-NORTHWEST- PHOTO DATED 08/25/10 GET*

*PROVIDING CONSTANT SURVEY OF GRADE AT CHANNEL INVERT CENTERLINE - PHOTO DATED 08/25/10 GET LLC*

*CUTTING ALONG CENTERLINE - LOOKING NORTH PHOTO DATED 08/25/10 GET LLC*

*EXCAVATING TANK SPRING AND MAIN CHANNEL - LOOKING SOUTHEAST - PHOTO DATED 09/16/10 GET LLC*

## CHANNEL EXCAVATION

*EXCAVATING BETWEEN RIP RAP SECTIONS LOOKING SOUTH- PHOTO DATED 09/23/10 GET LLC*

*EXCAVATING AROUND THE CMP BYPASS PIPELINE PRIOR TO CUTTING BYPASS PIPELINE - LOOKING SOUTH- PHOTO DATED 09/30/10 GET LLC*

# CONCRETE DEMOLITION AND LANDFILLING

*UNEXCAVATED TSP STORAGE BUILDING FOUNDATION - LOOKING SOUTH- PHOTO DATED 06/23/10 GET LLC*

*HOE RAM ON EXCAVATOR WORKS TUNNEL BENEATH THE TSP STORAGE BUILDING - LOOKING SOUTH-SOUTHEAST- WATER PUMPED TO SEDIMENT POND - PHOTO DATED 06/24/10 GET LLC*

*EXCAVATING AROUND FOUNDATION FOOTINGS AND USING HOE RAM ON FOUNDATION WALLS - LOOKING SOUTH- PHOTO DATED 06/24/10 GET LLC*

*SAME LOCATION AS UPPER LEFT, EXPOSING MAIN REINFORCED CONCRETE PIERS IN EXCAVATION - LOOKING SOUTH- PHOTO DATED 06/27/10 GET LLC*

*STARTING C&D CONCRETE DEMOLITION LANDFILL - LOOKING SOUTHEAST- PHOTO DATED 06/30/10 GET LLC*

*LOOKING NORTH FROM TSP BUILDING FOUNDATION ALONG THE UNEXCAVATED ALIGNMENT OF THE CHANNEL EXCAVATION FOOTPRINT - PHOTO DATED 07/07/10 GET LLC*

## CONCRETE DEMOLITION AND LANDFILLING

*HOE RAM ON TSP STORAGE BUILDING FOUNDATION WALL - LOOKING NORTHWEST- PHOTO DATED 0707/10 GET LLC*

*HOE RAM KNOCKING DOWN TUNNEL- LOOKING SOUTHWEST- PHOTO DATED 07/07/10 GET LLC*

*WATER DRAINING FROM SUBGRADE TUNNEL INTO EXCAVATION AT TSP BUILDING- LOOKING SOUTHEAST- WATER PUMPED TO SEDIMENT POND - PHOTO DATED 07/09/10 GET LLC*

*EXCAVATING WITHIN TSP BUILDING FOUNDATION - LOOKING EAST - PHOTO DATED 07/10/10 GET LLC*

*PUMPING WATER FROM FOUNDATION TO SEDIMENT POND - LOOKING NORTHEAST- PHOTO DATED 07/09/10 GET LLC*

*SHEAR ARRIVES AND IS ATTACHED TO THE CAT 336 EXCAVATOR TO ASSIST IN CONCRETE DEMOLITION - LOOKING EAST - PHOTO DATED 07/10/10 GET LLC*

# CONCRETE DEMOLITION AND LANDFILLING

*SHEAR IN ACTION CUTTING FOUNDATION WALL OF TSP STORAGE BUILDING - LOOKING SOUTH - PHOTO DATED 07/10/10 GET LLC*

*COVERING THE CONCRETE IN THE C&D LANDFILL - LOOKING NORTH- PHOTO DATED 07/12/10 GET LLC*

*SHEAR IN ACTION CUTTING FOUNDATION WALL OF TSP STORAGE BUILDING - LOOKING NORTH- PHOTO DATED 07/12/10 GET LLC*

*CLEANING OUT TO FOOTINGS OF TSP STORAGE BUILDINGS - LOOKING WEST - PHOTO DATED 07/14/10 GET LLC*

*EXPOSED PIERS OF TSP STORAGE BUILDING FOUNDATION - LOOKING NORTH- PHOTO DATED 07/14/10 GET LLC*

*SHEAR CUTTING ALONG BASE OF WALL AND ALONG FLOOR OF TUNNEL IN TSP STORAGE BUILDING - LOOKING SOUTHWEST - PHOTO DATED 07/14/10 GET LLC*

## CONCRETE DEMOLITION AND LANDFILLING

*FLOOR OF TSP BUILDING FOUNDATION REMOVED AND TUNNEL NEARLY REMOVED LOOKING SOUTH- PHOTO DATED 07/15/10 GET LLC*

*GRADING TOP OF C&D LANDFILL COVER - LOOKING SOUTHEAST- PHOTO DATED 08/13/10 GET LLC*

## CONCRETE DEMOLITION AND LANDFILLING

*VAULT AND TUNNEL TO TSP BUILDING EXPOSED AND DEWATERED - LOOKING EAST-NORTHEAST - PHOTO DATED 07/16/10 GET LLC*

*AIR MONITORING WITHIN EXCAVATION NEAR WEST SIDE OF SLURRY PIT COVER - LOOKING SOUTH - PHOTO DATED 07/16/10 GET LLC*

# SEPTIC TANK PHOS TREATMENT

*SEPTIC TANK MOVED INTO TREATMENT CELL AREA WITH MATERIALS LOADED IN TANK - LOOKING WEST-SOUTHWEST- PHOTO DATED 08/03/10 GET LLC*

*SEPTIC TANK PARTIALLY UNLOADED INTO TREATMENT CELL AREA FOR MIXING TREATMENT AND OXIDATION - LOOKING WEST-SOUTHWEST- PHOTO DATED 08/05/10 GET LLC*

## SEPTIC TANK PHOS TREATMENT

*ROUTINE DECONNING OF EXCAVATOR FOLLOWING SEPTIC TANK MATERIAL TREATMENT IN CELL AREA - LOOKING WEST- PHOTO DATED 08/07/10 GET LLC*

*SEPTIC TANK MATERIAL NO LONGER REACTIVE IN TREATMENT CELL, TREATMENT NEAR COMPLETE AND LOADING MATERIAL BACK INTO TANK- LOOKING WEST- PHOTO DATED 08/23/10 GET*

# STREAM CHANNEL BYPASS SYSTEM

*WELDING THE 18-INCH BYPASS PIPELINE TOGETHER LOOKING NORTH- PHOTO DATED 08/10/10 GET LLC*

*BYPASS PIPING OPERATIONAL - LOOKING SOUTH - PHOTO DATED 08/24/10 GET LLC*

*DISSIPATER BOX RECEIVING PIPE DISCHARGE - LOOKING SOUTHEAST- PHOTO DATED 08/22/10 GET LLC*

*IDEQ INSPECTION OF THE PHASE II WORK AND BYPASS PIPELINE INLET - LOOKING SOUTHWEST- PHOTO DATED 08/24/10 GET LLC*

*4-INCH PUMP USED TO PUMPBACK FROM CMP INLET BACK TO COFFER DAM- PHOTO DATED 09/15/10 GET LLC*

*COFFER DAM AND GRAVITY FED 18-INCH BYPASS PIPELINE - LOOKING SOUTHEAST- PHOTO DATED 10/01/10 GET LLC*

# CMP INLET ABANDONMENT AND CROSSING CONSTRUCTION

*LOWER CROSSING OUTLET CONSTRUCTION WITH HDPE DRAIN PIPE IN PLACE - LOOKING NORTH-NORTHWEST - PHOTO DATED 09/20/10 GET LLC*

*LOWER CROSSING OUTLET CONSTRUCTION LOOKING TOWARDS CONFLUENCE ON BENCH WITH STREAM CHANNEL - LOOKING SOUTH-SOUTHWEST - PHOTO DATED 09/20/10 GET LLC*

*BUILDING ACCESS RAMP TO GROUT LOWER CROSSING OUTLET - LOOKING NORTH- PHOTO DATED 09/20/10 GET LLC*

*POURING CONCRETE IN LOWER CROSSING OUTLET BETWEEN SOIL PLUG AND BLINDED PIPE WITH SUPERSACKS OF BENTONITE IN PLACE - LOOKING NORTHWEST- PHOTO DATED 09/20/10 GET LLC*

*FILLING CMP COMPLETELY BEFORE WELDING PIPE OPENING SHUT - LOOKING NORTHEAST- PHOTO DATED 09/20/10 GET LLC*

*SEALING TSP BUILDING TUNNEL AND VAULT IN CONCRETE - LOOKING NORTHEAST- PHOTO DATED 09/27/10 GET LLC*

# CMP INLET ABANDONMENT AND CROSSING CONSTRUCTION

*GROUTING AND ABANDONING CMP INLET FOR 50 FEET WHILE BACKFILLING AND COMPACTING NORTH OF INLET IN OLD STREAM CHANNEL - LOOKING NORTH- PHOTO DATED 09/27/10 GET LLC*

*GROUTING AND ABANDONING CMP INLET - LOOKING SOUTH - PHOTO DATED 09/27/10 GET LLC*

*ABANDONED CMP INLET SHOWING STEEL FLANGE, BENTONITE AND FILTER FABRIC - LOOKING NORTH - PHOTO DATED 09/27/10 GET LLC*

*GROUTING UPPER CMP CROSSING OUTLET - LOOKING SOUTH - PHOTO DATED 09/27/10 GET LLC*

*GROUTING UPPER CMP CROSSING (DOWNSTREAM INLET) - LOOKING SOUTHWEST- PHOTO DATED 09/27/10 GET LLC*

*GPS OBSERVATIONS ON CROSSINGS PRIOR TO SLOPE AND TRENCH BACKFILLING - LOOKING EAST SOUTHEAST - PHOTO DATED 09/27/10 GET LLC*

# RIP RAP AND WEIR CONSTRUCTION

*PLACING THE FIRST FILTER GRAVEL AND RIP RAP 25+60 TO 26+00 - LOOKING WEST -- PHOTO DATED 08/27/10 GET LLC*

*GRADE STAKES SET FOR FILTER GRAVEL AND RIP RAP THICKNESS PLACEMENTS - LOOKING NORTH - PHOTO DATED 08/30/10 GET LLC*

*STARTING ON WEIR CONSTRUCTION - LOOKING NORTH- PHOTO DATED 08/30/10 GET LLC*

*SURVEYING IN PLUNGE POOL AND WEIR - LOOKING SOUTHWEST- PHOTO DATED 08/30/10 GET LLC*

*SETTING BENCH GRADES AND SETTING FILTER GRAVEL AND RIP RAP NEAR 4+75 - LOOKING SOUTH- PHOTO DATED 08/30/10 GET LLC*

*CHANNEL RIP RAP IN PLACE WITH SPRINKLE GRAVEL PLACED TO FILL VOIDS IN RIP RAP - LOOKING SOUTH- PHOTO DATED 09/01/10 GET LLC*

# RIP RAP AND WEIR CONSTRUCTION

*CONSTRUCTING WEIR AND PLUNGE POOL ON 6 INCH FILTER GRAVEL LAYER - LOOKING NORTHWEST- PHOTO DATED 09/01/10 GET LLC*

*RIP RAP PLACEMENT NEAR CHANNEL INLET- LOOKING SOUTH- PHOTO DATED 09/02/10 GET LLC*

*RIP RAP AND SPRINKLE GRAVEL - LOOKING NORTH- PHOTO DATED 09/02/10 GET LLC*

*SURVEYING SERIES OF WEIRS AND PLUNGE POOLS - LOOKING NORTH - PHOTO DATED 09/03/10 GET LLC*

*RIP RAP PLACEMENT INTO "V" DITCH BETWEEN BENCHES NORTH OF SYNCLINE SPRING - LOOKING SOUTHWEST- PHOTO DATED 09/09/10 GET LLC*

*PLACEMENT OF TYPE 3B EROSION CONTROL BLANKETS BETWEEN RIP RAP AND BENCHES AND DRESSING BANKS - LOOKING SOUTH - PHOTO DATED 09/16/10 GET LLC*

# RIP RAP AND WEIR CONSTRUCTION

*EXCAVATORS WORKING TOGETHER TO EXCAVATE TRENCH, REMOVE SOILS , PLACE FILTER GRAVEL, RIP RAP AND WEIR STRUCTURES AND SPRINKLE GRAVEL - LOOKING NORTH - PHOTO DATED 09/15/10 GET LLC*

*TYPE 3 B BLANKETS ANCHORED PRIOR TO BENCH CONSTRUCTION - LOOKING SOUTH- PHOTO DATED 09/16/10 GET LLC*

*PLACING RIP RAP WITH LONGSTICK FROM STONE BOX - LOOKING SOUTH- PHOTO DATED 09/6/10 GET LLC*

*WEIRS FUNCTIONAL - LOOKING NORTH - PHOTO DATED 10/08/10 GET LLC*

# DRAINAGES AND SITE RECLAMATION

*TANK SPRING DROP INLET GROUTED CLOSED WITH ACCESS ROAD AND CULVERT AND OPEN CHANNEL CONNECTION TO MAIN CHANNEL - LOOKING NORTHWEST- PHOTO DATED 09/16/10 GET LLC*

*COMPACTING AND GRADING SITE ACCESS ROADS AROUND THE SLURRY PIT COVER - LOOKING SOUTH-SOUTHEAST - PHOTO DATED 09/16/10 GET LLC*

*CONNECTING SYNCLINE SPRING AND COMPACTING SLOPE - LOOKING NORTH- NORTHWEST - PHOTO DATED 09/21/10 GET LLC*

*WORK AROUND SYNCLINE SPRING CULVERT - LOOKING WEST- PHOTO DATED 09/22/10 GET LLC*

*HYDROSEEDING NORTH SPOILS AREA - LOOKING NORTH- NORTHEAST - PHOTO DATED 09/26/10 GET LLC*

*RIP RAP AT SYNCLINE SPRING INLET BASIN - LOOKING SOUTHEAST- PHOTO DATED 09/22/10 GET LLC*

# DRAINAGES AND SITE RECLAMATION

*PLACEMENT OF FIRST OF THE TYPE 2D EROSION CONTROL BLANKET OVER HYDROSEEDED SLOPE NEAR STATION 7+20 - LOOKING NORTH- PHOTO DATED 09/28/10 GET LLC*

*PLACEMENT OF TYPE 2D EROSION CONTROL BLANKET OVER HYDROSEEDED SLOPE NEAR STATION 25+80 - LOOKING NORTH - PHOTO DATED 09/30/10 GET LLC*

*HYDROSEEDED C&D LANDFILL COVER - LOOKING NORTH- PHOTO DATED 09/30/10 GET LLC*

*INSTALLING 16 INCH PIPELINE CULVERT FOR SITE ACCESS ROAD - LOOKING SOUTHWEST - PHOTO DATED 10/05/10 GET LLC*

*HYDROSEEDING AND PLACING TYPE 2D EROSION BLANKET - LOOKING NORTHEAST- DATED 10/05/10 GET LLC*

*PLACEMENT OF RIP RAP IN CHUTE SPILLWAY FROM SEDIMENT POND - - PHOTO DATED 10/05/10 GET LLC*

# DRAINAGES AND SITE RECLAMATION

*CLEANED OUT AND RECLAIMED PHOSPHORIA GULCH WITH STRAW WATTLE AND SILT FENCES IN PLACE - RIP RAP COMPLETE IN CHANNEL - LOOKING EAST-SOUTHEAST - PHOTO DATED 10/05/10 GET LLC*

*SMOOTHING CHANNEL 2:1 SLOPES PRIOR TO HYDROSEEDING - LOOKING SOUTH - PHOTO DATED 10/05/10 GET LLC*

*CLEANING EXCESS SOILS FROM SLOPES FOLLOWING BENCH CONSTRUCTION - LOOKING SOUTH - PHOTO DATED 10/05/10 GET LLC*

*HYDROSEEDING EAST SIDE OF STREAM CHANNEL - LOOKING SOUTH - PHOTO DATED 10/06/10 GET LLC*

*FENCE CONSTRUCTION ALONG SOUTH PROPERTY LINE - LOOKING EAST- PHOTO DATED 10/06/10 GET LLC*

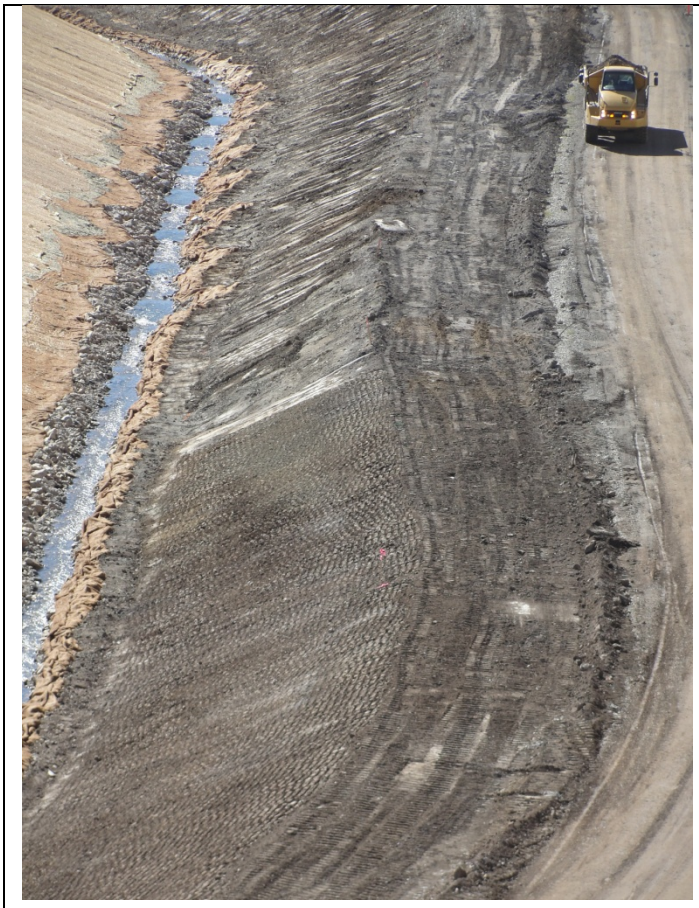
*DRESSING BANKS AND REMOVING BYPASS PIPELINE - LOOKING SOUTH - PHOTO DATED 10/13/10 GET LLC*

## DRAINAGES AND SITE RECLAMATION

*DIGGING ANCHOR TRENCH FOR TYPE 2D ECB LOOKING SOUTH - PHOTO DATED 10/12/10 GET LLC*

*LONGSTICK TRACKHOE WORKING SLOPES ON WEST SIDE OF CHANNEL - LOOKING SOUTH - PHOTO DATED 10/13/10 GET LLC*

## DRAINAGES AND SITE RECLAMATION



*DRESSING SLOPES FOR HYDROSEEDING - LOOKING SOUTH - PHOTO DATED 10/17/10 GET LLC*

*PLUNGE POOL AND RIP RAP DURING PLACEMENT OF ECB - LOOKING SOUTH - PHOTO DATED 10/07/10 GET LLC*

# PHOSPHORIA GULCH

*PLACING SILT FENCE ALONG PHOSPHRIA GULCH DRAINAGE PRIOR TO PHASE II ORE REMOVAL - LOOKING WEST-NORTHWEST- PHOTO DATED 06/22/10 GET LLC*

*REPLACING SILT FENCE - LOOKING SOUTHEAST - PHOTO DATED 07/12/10 GET LLC*

*CLEANING AND LOADING OUT ORE FOR FINAL CLEANUP OF GULCH - LOOKING NORTHWEST- PHOTO DATED 08/20/10 GET LLC*

*RECONTOURING PHOSPHORIA GULCH AFTER ORE REMOVAL TO CONTROL DRAINAGE PATTERNS - LOOKING EAST SOUTHEAST- PHOTO DATED 08/25/10 GET LLC*

*ORE REMOVED FROM PHOSPHORIA GULCH - TRANSPORTED OFF SITE TO SODA SPRINGS FOR PROCESSING INTO FERTILIZER - LOOKING NORTH- PHOTO DATED 08/26/10 GET LLC*

*ADDITIONAL SOIL FROM CHANNEL EXCAVATION IMPORTED INTO PHOSPHORIA GULCH FOR GROWTH MEDIUM - LOOKING NORTHWEST- PHOTO DATED 08/26/10 GET LLC*

# PHOSPHORIA GULCH

*RIP RAP SECTIONS COMPLETED IN THE PHOSPHORIA GULCH DRAINAGE - LOOKING EAST - PHOTO DATED 09/23/10 GET LLC*

*RIP RAP SECTIONS COMPLETED IN THE PHOSPHORIA GULCH DRAINAGE - LOOKING WEST - PHOTO DATED 09/23/10 GET LLC*

*PHOSPHORIA GULCH PRIOR TO STRAW WATTLE AND HYDROSEED - LOOKING WEST - PHOTO DATED 09/17/10 GET LLC*

# STREAM ACTIVATION

*DAN WHITE OF CRA GETTING SET TO OPEN GATE ON COFFER DAM - LOOKING SOUTH- PHOTO DATED 10/06/10 GET LLC*

*PLACING CUT 18-INCH BYPASS PIPELINE INTO NEW STREAM CHANNEL ALLOWING FOR CONNECTION TO THE EXISTING CHANNEL - LOOKING SOUTH - PHOTO DATED 10/06/10 GET LLC*

*WATER BEGINS TO FLOW INTO NEW CHANNEL AT 13:18 HRS - LOOKING NORTH- PHOTO DATED 10/06/10 GET LLC*

*APPROXIMATELY 2.2 CFS FLOW INTO NEWLY CONSTRUCTED CHANNEL ON DISSIPATER ROCK- LOOKING SOUTH- PHOTO DATED 10/06/10 GET LLC*

*IDEQ INSPECTS PROGRESS OF STREAM ADVANCEMENT ON OPENING DAY - LOOKING NORTH - PHOTO DATED 10/06/10 GET LLC*

*WEIRS AND POOLS WITH WATER NEAR STATION 18+50 ON FOLLOWING DAY - LOOKING NORTH- PHOTO DATED 10/07/10 GET LLC*

# PHASE II COMPLETION

*RECLAIMED AND HYDROSEEDED NORTH SPOILS AREA WITH BERM EAST OF CREEK - LOOKING SOUTH- PHOTO DATED 10/20/10 GET LLC*

*EROSION CONTROL BLANKETS COMPLETED - TANK SPRING CONFLUENCE - LOOKING SOUTH-SOUTHEAST - PHOTO DATED 10/20/10 GET LLC*

*FINAL GRADING AND SMOOTHING OF ON-SITE ACCESS ROAD - LOOKING NORTH-NORTHEAST - PHOTO DATED 10/20/10 GET LLC*

*AUGERING HOLES FOR TREE PLANTINGS ON CREEK BENCHES - LOOKING NORTHEAST- PHOTO DATED 10/22/10 GET LLC*

*GEOREGTOWN CREEK ENTERING THE PHASE II STREAM CHANNEL - LOOKING SOUTH- PHOTO DATED 10/20/10 GET LLC*

*GEORGETOWN CREEK NEAR END OF STREAM CHANNEL AT STATION 24+05 - SEDIMENT POND CULVERT AND CHUTE SPILLWAY ON LEFT, LOOKING SOUTH- PHOTO DATED 10/20/10 GET LLC*

## PHASE II COMPLETION

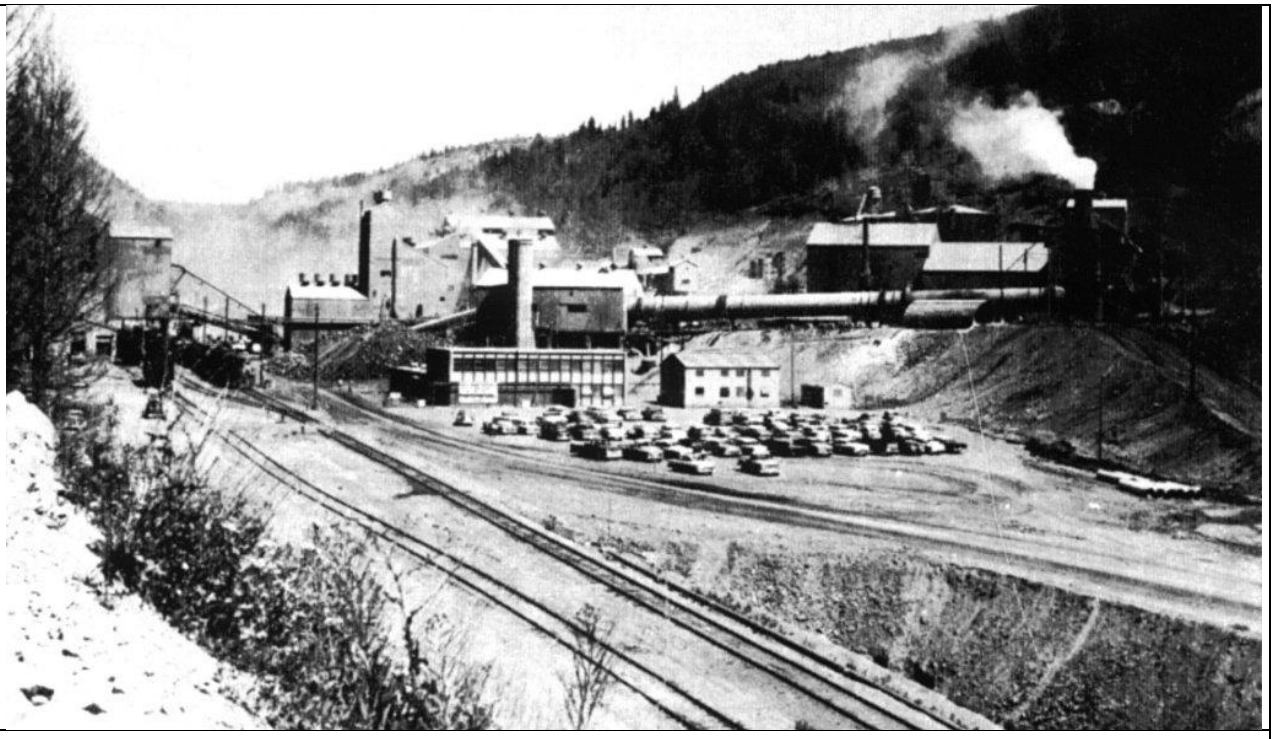
*ON SITE ACCESS ROAD AT SOUTH SPOILS AREA AND WELL GT-6 - LOOKING SOUTH TO NEW FENCE AND MAIN GATE- PHOTO DATED 10/20/10 GET LLC*

*REMOVING PUMP FROM PRODUCTION WELL GT-DEEP- PHOTO DATED 10/22/10 GET LLC*

*WORKING SITE ACCESS ROAD WEST OF THE SLURRY PIT COVER - LOOKING EAST-NORTHEAST- PHOTO DATED 10/20/10 GET LLC* - NOTE : SYNCLINE SPRING CULVERT OUTLET LOWER LEFT ON SIDE OF CHANNEL

*NEW SITE ACCESS ROAD EAST OF CREEK WITH RECLAIMED MIDDLE SPOILS , CLARIFIER CAP AND RECLAIMED SOUTH SPOILS AREAS (LEFT TO RIGHT FOREGROUND) WITH MEADE PEAK (9957 FT) IN BACKGROUND - LOOKING SOUTHEAST - PHOTO DATED 10/20/10 GET LLC*

## PHASE II COMPLETION



*CENTRAL FARMERS FERTILIZER FACILITY CIRCA EARLY 1960'S LOOKING NORTH-NORTHEAST- PHOTO DATE UNKNOWN - COURTESY USFS*

*POST-PHASE II CONSTRUCTION DURING RECLAMATION- SIMILAR VIEW AS ABOVE - LOOKING NORTHEAST- PHOTO DATED 10/20/10 GET LLC*

## PHASE II COMPLETION

*RECLAIMED STREAM CHANNEL - LOOKING NORTHEAST TO CONFLUENCE WITH TANK SPRING- PHOTO DATED 10/20/10 GET LLC*

*RECLAIMED STREAM CHANNEL, HYDROSEEDING WEST SIDE OF STREAM CHANNEL - LOOKING SOUTH - SOUTHEAST PHOTO DATED 10/20/10 GET LLC*

# APPENDIX B - CQA DOCUMENTATION

## MATERIAL TRACKING TABLES
## MATERIAL SUBMITTALS
## MATERIAL SPECIFICATIONS
## MATERIAL DELIVERY INVENTORY
## MATERIALS CERTIFICATES
## SEED CERTIFICATIONS
## FERTILIZER TICKETS
## CERTIFICATES OF COMPLIANCE

CONESTOGA-ROVERS & ASSOCIATES

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

**Reference No: 56902**

| 3" Minus River Rock / Filter Rock (Void Fill) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | Source | Trucking Company | Truck No | Ticket No | UM | QTY | Volume | Location & Notes |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5604 | TN | 23.34 | 23.34 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5604 | TN | 23.32 | 46.66 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5551 | TN | 28.29 | 74.95 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5551 | TN | 28.49 | 103.44 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5551 | TN | 28.22 | 131.66 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5248 | TN | 25.88 | 157.54 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5248 | TN | 26.10 | 183.64 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5248 | TN | 26.07 | 209.71 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5470 | TN | 23.62 | 233.33 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5470 | TN | 23.54 | 256.87 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5470 | TN | 23.43 | 280.30 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 57 | 6341 | TN | 26.16 | 306.46 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 57 | 6341 | TN | 26.31 | 332.77 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 57 | 6341 | TN | 26.63 | 359.40 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 53 | 3049 | TN | 27.00 | 386.40 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 53 | 3049 | TN | 26.51 | 412.91 | Simmons Pit/Backhaul from SSP |
| 7/22/2010 | Bryant Smith | Dan Baily Trucking | 53 | 3049 | TN | 26.81 | 439.72 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5471 | TN | 23.63 | 463.35 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5471 | TN | 23.57 | 486.92 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5471 | TN | 23.31 | 510.23 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5552 | TN | 28.47 | 538.70 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5552 | TN | 28.55 | 567.25 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5552 | TN | 28.71 | 595.96 | Simmons Pit/Backhaul from SSP |

CONESTOGA-ROVERS & ASSOCIATES

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

**Reference No: 56902**

| 3" Minus River Rock / Filter Rock (Void Fill) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Date** | **Source** | **Trucking Company** | **Truck No** | **Ticket No** | **UM** | **QTY** | **Volume** | **Location & Notes** |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 57 | 6342 | TN | 26.69 | 622.65 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 57 | 6342 | TN | 26.50 | 649.15 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 57 | 6342 | TN | 26.69 | 675.84 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 53 | 3050 | TN | 26.68 | 702.52 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 53 | 3050 | TN | 26.53 | 729.05 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 53 | 3050 | TN | 26.28 | 755.33 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5605 | TN | 23.65 | 778.98 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5605 | TN | 23.43 | 802.41 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5605 | TN | 23.57 | 825.98 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5249 | TN | 26.31 | 852.29 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5249 | TN | 26.05 | 878.34 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5249 | TN | 25.89 | 904.23 | Simmons Pit/Backhaul from SSP |
| 7/23/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5249 | TN | 26.06 | 930.29 | Simmons Pit/Backhaul from SSP |
| | | | | | | | | |
| | | | | | | **Total** | **930.29** | |
| | | | | | | **Total CY** | **560.00** | SSLTD Survey |
| | | | | | | **TN/CY** | **1.66** | |

CONESTOGA-ROVERS & ASSOCIATES

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

**Reference No: 56902**

| Filter Rock | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | Source | Trucking Company | Truck | Ticket | UM | QTY | Volume | Location & Notes |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5623 | TN | 23.61 | 23.61 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5623 | TN | 23.42 | 47.03 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5623 | TN | 23.66 | 70.69 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5408 | TN | 26.60 | 97.29 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5408 | TN | 26.92 | 124.21 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5408 | TN | 26.26 | 150.47 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5613 | TN | 26.70 | 177.17 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5613 | TN | 26.14 | 203.31 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5613 | TN | 26.50 | 229.81 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4702 | TN | 23.43 | 253.24 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4702 | TN | 23.50 | 276.74 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4702 | TN | 23.32 | 300.06 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5536 | TN | 26.41 | 326.47 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5536 | TN | 26.35 | 352.82 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5536 | TN | 26.64 | 379.46 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5436 | TN | 26.18 | 405.64 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5436 | TN | 26.69 | 432.33 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5436 | TN | 26.41 | 458.74 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5560 | TN | 28.49 | 487.23 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5560 | TN | 28.74 | 515.97 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5560 | TN | 28.87 | 544.84 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5577 | TN | 26.62 | 571.46 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5577 | TN | 26.63 | 598.09 | Ivin's Pit/Backhaul from SSP |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Filter Rock | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | Source | Trucking Company | Truck | Ticket | UM | QTY | Volume | Location & Notes |
| 8/6/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5577 | TN | 26.00 | 624.09 | Ivin's Pit/Backhaul from SSP |
| 8/6/2010 | Bryant Smith | Little Hill Trucking | N/A | N/A | TN | 26.15 | 650.24 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4704 | TN | 23.63 | 673.87 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4704 | TN | 23.72 | 697.59 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5438 | TN | 26.80 | 724.39 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5438 | TN | 28.74 | 753.13 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5625 | TN | 23.50 | 776.63 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5625 | TN | 23.77 | 800.40 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5562 | TN | 28.75 | 829.15 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5562 | TN | 28.38 | 857.53 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5410 | TN | 26.57 | 884.10 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5410 | TN | 29.33 | 913.43 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5615 | TN | 26.14 | 939.57 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5615 | TN | 26.22 | 965.79 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5149 | TN | 28.71 | 994.50 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5149 | TN | 28.23 | 1,022.73 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5579 | TN | 26.38 | 1,049.11 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5579 | TN | 26.56 | 1,075.67 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5538 | TN | 26.28 | 1,101.95 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5538 | TN | 26.84 | 1,128.79 | Ivin's Pit/Backhaul from SSP |
| 8/10/2010 | Bryant Smith | Little Hill Trucking | N/A | N/A | TN | 25.71 | 1,154.50 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5580 | TN | 26.48 | 1,180.98 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5539 | TN | 26.74 | 1,207.72 | Ivin's Pit/Backhaul from SSP |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Filter Rock | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Date** | **Source** | **Trucking Company** | **Truck** | **Ticket** | **UM** | **QTY** | **Volume** | **Location & Notes** |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4705 | TN | 23.36 | 1,231.08 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5616 | TN | 26.09 | 1,257.17 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5150 | TN | 28.78 | 1,285.95 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 47 | 1728 | TN | 23.59 | 1,309.54 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5411 | TN | 26.29 | 1,335.83 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5439 | TN | 26.53 | 1,362.36 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5563 | TN | 28.69 | 1,391.05 | Ivin's Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Little Hill Trucking | N/A | N/A | TN | 27.38 | 1,418.43 | Ivin's Pit/Backhaul from SSP |
| | | | | | | | | |
| | | | | | | **Total** | **1,418.43** | |
| | | | | | | **Total CY** | **675.00** | based on SSLTD Survey |
| | | | | | | **TN/CY** | **2.10** | |
| | | | | | | | | |
| 9/20/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3964 | TN | 26.35 | 26.35 | Afton, WY Pit |
| 9/22/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3968 | TN | 27.70 | 54.05 | Afton, WY Pit |
| 9/22/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3968 | TN | 27.50 | 81.55 | Afton, WY Pit |
| 9/23/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3969 | TN | 29.05 | 110.60 | Afton, WY Pit |
| 9/23/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3969 | TN | 28.75 | 139.35 | Afton, WY Pit |
| 9/24/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3970 | TN | 28.30 | 167.65 | Afton, WY Pit |
| 9/24/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3970 | TN | 28.65 | 196.30 | Afton, WY Pit |
| 9/27/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3971 | TN | 28.50 | 224.80 | Afton, WY Pit |
| 9/27/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3971 | TN | 27.55 | 252.35 | Afton, WY Pit |
| 9/28/2010 | Kilroy LLC | Kilroy LLC | 63-127 | 3972 | TN | 29.05 | 281.40 | Afton, WY Pit |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Filter Rock | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Date** | **Source** | **Trucking Company** | **Truck** | **Ticket** | **UM** | **QTY** | **Volume** | **Location & Notes** |
| | | | | | | | | |
| | | | | | | **Total** | **281.40** | |
| | | | | | | **Total CY** | **148.11** | |
| | | | | | | **TN/CY** | **1.90** | per Kilroy LLC |

CONESTOGA-ROVERS & ASSOCIATES

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

**Reference No: 56902**

| Road Base | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Date** | **Source** | **Trucking Company** | **Truck** | **Ticket** | **UM** | **QTY** | **Volume** | **Location & Notes** |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5619 | TN | 23.79 | 23.79 | Simmons Pit/Backhaul from SSP |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5619 | TN | 23.69 | 47.48 | Simmons Pit/Backhaul from SSP |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5405 | TN | 26.57 | 74.05 | Simmons Pit/Backhaul from SSP |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5405 | TN | 26.24 | 100.29 | Simmons Pit/Backhaul from SSP |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5620 | TN | 23.66 | 123.95 | Simmons Pit/Backhaul from SSP |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5620 | TN | 23.59 | 147.54 | Simmons Pit/Backhaul from SSP |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5618 | TN | 26.62 | 174.16 | Simmons Pit/Backhaul from SSP |
| 8/3/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5618 | TN | 26.48 | 200.64 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5406 | TN | 26.61 | 227.25 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5406 | TN | 26.79 | 254.04 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5406 | TN | 26.97 | 281.01 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5406 | TN | 26.83 | 307.84 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5406 | TN | 26.70 | 334.54 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5532 | TN | 23.69 | 358.23 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5532 | TN | 23.58 | 381.81 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5532 | TN | 23.09 | 404.90 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5532 | TN | 23.49 | 428.39 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 54 | 5532 | TN | 23.33 | 451.72 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5534 | TN | 26.69 | 478.41 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5534 | TN | 26.72 | 505.13 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5534 | TN | 26.61 | 531.74 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5534 | TN | 26.53 | 558.27 | Simmons Pit/Backhaul from SSP |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Road Base | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | Source | Trucking Company | Truck | Ticket | UM | QTY | Volume | Location & Notes |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5611 | TN | 26.09 | 584.36 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5611 | TN | 26.35 | 610.71 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5611 | TN | 26.20 | 636.91 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5611 | TN | 26.30 | 663.21 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5621 | TN | 23.65 | 686.86 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5621 | TN | 23.52 | 710.38 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5621 | TN | 23.69 | 734.07 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5621 | TN | 23.56 | 757.63 | Simmons Pit/Backhaul from SSP |
| 8/4/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5621 | TN | 23.58 | 781.21 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5535 | TN | 28.11 | 809.32 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5535 | TN | 27.13 | 836.45 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5435 | TN | 27.78 | 864.23 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5435 | TN | 27.73 | 891.96 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4701 | TN | 23.50 | 915.46 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4701 | TN | 23.64 | 939.10 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5559 | TN | 28.87 | 967.97 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5559 | TN | 28.51 | 996.48 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 55 | 5576 | TN | 26.28 | 1,022.76 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 55 | 5576 | TN | 26.69 | 1,049.45 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5407 | TN | 26.67 | 1,076.12 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5407 | TN | 26.83 | 1,102.95 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5622 | TN | 23.69 | 1,126.64 | Simmons Pit/Backhaul from SSP |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Road Base | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | Source | Trucking Company | Truck | Ticket | UM | QTY | Volume | Location & Notes |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 47 | 5622 | TN | 23.65 | 1,150.29 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5612 | TN | 25.87 | 1,176.16 | Simmons Pit/Backhaul from SSP |
| 8/5/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5612 | TN | 26.30 | 1,202.46 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5580 | TN | 26.65 | 1,229.11 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5539 | TN | 26.51 | 1,255.62 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 54 | 4705 | TN | 23.61 | 1,279.23 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5616 | TN | 26.29 | 1,305.52 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5150 | TN | 28.87 | 1,334.39 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 47 | 1728 | TN | 23.49 | 1,357.88 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5411 | TN | 27.80 | 1,385.68 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5439 | TN | 28.90 | 1,414.58 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5563 | TN | 28.74 | 1,443.32 | Simmons Pit/Backhaul from SSP |
| 8/11/2010 | Bryant Smith | Little Hill Trucking | N/A | N/A | TN | 26.82 | 1,470.14 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5412 | TN | 28.66 | 1,498.80 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5412 | TN | 28.08 | 1,526.88 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 32 | 5412 | TN | 28.03 | 1,554.91 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5581 | TN | 28.82 | 1,583.73 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5581 | TN | 28.68 | 1,612.41 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5581 | TN | 28.61 | 1,641.02 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 2 | 5581 | TN | 27.88 | 1,668.90 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5540 | TN | 26.72 | 1,695.62 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5540 | TN | 26.70 | 1,722.32 | Simmons Pit/Backhaul from SSP |

CONESTOGA-ROVERS & ASSOCIATES

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

**Reference No: 56902**

| Road Base | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Date** | **Source** | **Trucking Company** | **Truck** | **Ticket** | **UM** | **QTY** | **Volume** | **Location & Notes** |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 53 | 5540 | TN | 26.66 | 1,748.98 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 47 | 1729 | TN | 23.57 | 1,772.55 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 47 | 1729 | TN | 24.91 | 1,797.46 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5564 | TN | 28.44 | 1,825.90 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5564 | TN | 28.40 | 1,854.30 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5564 | TN | 28.99 | 1,883.29 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 46 | 5564 | TN | 28.55 | 1,911.84 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5617 | TN | 26.08 | 1,937.92 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5617 | TN | 26.49 | 1,964.41 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5617 | TN | 26.35 | 1,990.76 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 48 | 5617 | TN | 26.42 | 2,017.18 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5440 | TN | 28.43 | 2,045.61 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5440 | TN | 28.75 | 2,074.36 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 31 | 5440 | TN | 28.23 | 2,102.59 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5582 | TN | 26.72 | 2,129.31 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5582 | TN | 26.90 | 2,156.21 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5582 | TN | 27.03 | 2,183.24 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Dan Baily Trucking | 57 | 5582 | TN | 26.41 | 2,209.65 | Simmons Pit/Backhaul from SSP |
| 8/12/2010 | Bryant Smith | Little Hill Trucking | N/A | N/A | TN | 79.90 | 2,289.55 | Simmons Pit/Backhaul from SSP |
| | | | | | | | | |
| | | | | | | **Total TN** | **2,289.55** | |
| | | | | | | **Total CY** | **1,528.00** | SSLTD Survey |

CONESTOGA-ROVERS & ASSOCIATES

Reference No: 56902

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| USFS Right-Of-Way (ROW) Excavation | | | | | | |
|---|---|---|---|---|---|---|
| **Date** | **Load Count** | **UM** | **Load Volume** | **Volume** | **Cumulitive** | **Notes and Disposal Location** |
| 7/29/2010 | 21 | CY | 18.0 | 378.0 | 378.0 | North USFS Road Relocation, hauled to North spoil area |
| 8/2/2010 | 10 | CY | 18.0 | 180.0 | 558.0 | North USFS Road Relocation, hauled to North spoil area |
| | | | | | | |
| | | | | **Total** | **558.0** | |

CONESTOGA-ROVERS & ASSOCIATES

Reference No: 56872

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Channel Excavation | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Disposal Location |
| 6/19/2010 | 20 | CY | 27.0 | 540.0 | 540.0 | South spoil area (Removed from TP 113) |
| 6/19/2010 | 21 | CY | 27.0 | 567.0 | 1,107.0 | Removed along concrete wall |
| 6/21/2010 | 13 | CY | 27.0 | 351.0 | 1,458.0 | South spoil area (Removed from TP 113) |
| 6/22/2010 | 1 | CY | 27.0 | 27.0 | 1,485.0 | South spoil area (Removed from TP 113) |
| 6/22/2010 | 38 | CY | 27.0 | 1,026.0 | 2,511.0 | South spoil area |
| 6/23/2010 | 107 | CY | 27.0 | 2,889.0 | 5,400.0 | South spoil area |
| 6/24/2010 | 46 | CY | 27.0 | 1,242.0 | 6,642.0 | South spoil area |
| 6/24/2010 | 6 | CY | 27.0 | 162.0 | 6,804.0 | South spoil area |
| 6/25/2010 | 38 | CY | 27.0 | 1,026.0 | 7,830.0 | South spoil area |
| 6/25/2010 | 24 | CY | 27.0 | 648.0 | 8,478.0 | South spoil area (Removed from TP 110) |
| 6/26/2010 | 15 | CY | 27.0 | 405.0 | 8,883.0 | South spoil area |
| 6/26/2010 | 18 | CY | 27.0 | 486.0 | 9,369.0 | South spoil area |
| 6/28/2010 | 55 | CY | 27.0 | 1,485.0 | 10,854.0 | South spoil area |
| 6/29/2010 | 82 | CY | 27.0 | 2,214.0 | 13,068.0 | South spoil area |
| 6/30/2010 | 111 | CY | 27.0 | 2,997.0 | 16,065.0 | South spoil area |
| 7/1/2010 | 44 | CY | 27.0 | 1,188.0 | 17,253.0 | South spoil area |
| 7/1/2010 | 10 | CY | 27.0 | 270.0 | 17,523.0 | South spoil area |
| 7/7/2010 | 50 | CY | 27.0 | 1,350.0 | 18,873.0 | South spoil area |
| 7/8/2010 | 70 | CY | 27.0 | 1,890.0 | 20,763.0 | South spoil area |
| 7/9/2010 | 48 | CY | 27.0 | 1,296.0 | 22,059.0 | South spoil area |
| 7/10/2010 | 52 | CY | 27.0 | 1,404.0 | 23,463.0 | South spoil area |
| 7/10/2010 | 22 | CY | 18.0 | 396.0 | 23,859.0 | South spoil area |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Channel Excavation | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Disposal Location |
| 7/14/2010 | 33 | CY | 27.0 | 891.0 | 24,750.0 | South spoil area |
| 7/14/2010 | 16 | CY | 18.0 | 288.0 | 25,038.0 | South spoil area |
| 7/15/2010 | 33 | CY | 27.0 | 891.0 | 25,929.0 | South spoil area |
| 7/15/2010 | 33 | CY | 18.0 | 594.0 | 26,523.0 | South spoil area |
| 7/16/2010 | 61 | CY | 27.0 | 1,647.0 | 28,170.0 | South spoil area |
| 7/16/2010 | 20 | CY | 18.0 | 360.0 | 28,530.0 | South spoil area |
| 7/17/2010 | 60 | CY | 27.0 | 1,620.0 | 30,150.0 | South spoil area |
| 7/17/2010 | 40 | CY | 18.0 | 720.0 | 30,870.0 | South spoil area |
| 7/17/2010 | 10 | CY | 27.0 | 270.0 | 31,140.0 | East spoil area |
| 7/19/2010 | 40 | CY | 18.0 | 720.0 | 31,860.0 | South spoil area |
| 7/19/2010 | 55 | CY | 27.0 | 1,485.0 | 33,345.0 | South spoil area |
| 7/20/2010 | 23 | CY | 18.0 | 414.0 | 33,759.0 | North spoil area |
| 7/20/2010 | 16 | CY | 27.0 | 432.0 | 34,191.0 | South spoil area |
| 7/20/2010 | 18 | CY | 27.0 | 486.0 | 34,677.0 | East spoil area |
| 7/20/2010 | 21 | CY | 27.0 | 567.0 | 35,244.0 | North spoil area |
| 7/21/2010 | 8 | CY | 18.0 | 144.0 | 35,388.0 | South spoil area |
| 7/21/2010 | 8 | CY | 27.0 | 216.0 | 35,604.0 | South spoil area |
| 7/21/2010 | 27 | CY | 18.0 | 486.0 | 36,090.0 | North spoil area |
| 7/21/2010 | 27 | CY | 27.0 | 729.0 | 36,819.0 | North spoil area |
| 7/21/2010 | 8 | CY | 18.0 | 144.0 | 36,963.0 | Hauled to build road approaches into Phosphoria Gulch |
| 7/21/2010 | 8 | CY | 27.0 | 216.0 | 37,179.0 | Hauled to build road approaches into Phosphoria Gulch |
| 7/22/2010 | 16 | CY | 27.0 | 432.0 | 37,611.0 | North spoil area |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Channel Excavation | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Disposal Location |
| 7/22/2010 | 8 | CY | 18.0 | 144.0 | 37,755.0 | North spoil area |
| 7/23/2010 | 56 | CY | 18.0 | 1,008.0 | 38,763.0 | North spoil area |
| 7/24/2010 | 35 | CY | 18.0 | 630.0 | 39,393.0 | North spoil area |
| 7/26/2010 | 45 | CY | 27.0 | 1,215.0 | 40,608.0 | North spoil area |
| 7/27/2010 | 51 | CY | 18.0 | 918.0 | 41,526.0 | East spoil area |
| 7/27/2010 | 3 | CY | 27.0 | 81.0 | 41,607.0 | North spoil area, diesel odor |
| 7/27/2010 | 5 | CY | 18.0 | 90.0 | 41,697.0 | Hauled to repair overcut slope along slurry pit |
| 7/28/2010 | 66 | CY | 27.0 | 1,782.0 | 43,479.0 | North spoil area |
| 7/28/2010 | 24 | CY | 27.0 | 648.0 | 44,127.0 | East spoil area |
| 7/28/2010 | 12 | CY | 18.0 | 216.0 | 44,343.0 | East spoil area |
| 7/29/2010 | 20 | CY | 27.0 | 540.0 | 44,883.0 | Hauled to repair overcut slope along slurry pit |
| 7/29/2010 | 18 | CY | 27.0 | 486.0 | 45,369.0 | East spoil area |
| 7/29/2010 | 10 | CY | 27.0 | 270.0 | 45,639.0 | Phosphorous containing material removed from septic, hauled to disposal area south of sed pond |
| 7/30/2010 | 90 | CY | 27.0 | 2,430.0 | 48,069.0 | East spoil area |
| 7/30/2010 | 32 | CY | 18.0 | 576.0 | 48,645.0 | North spoil area |
| 7/30/2010 | 2 | CY | 27.0 | 54.0 | 48,699.0 | Phosphorous containing material removed from septic, hauled to disposal area south of sed pond |
| 7/31/2010 | 62 | CY | 27.0 | 1,674.0 | 50,373.0 | North spoil area |
| 7/31/2010 | 25 | CY | 18.0 | 450.0 | 50,823.0 | North spoil area |
| 8/2/2010 | 90 | CY | 27.0 | 2,430.0 | 53,253.0 | North spoil area |
| 8/2/2010 | 34 | CY | 18.0 | 612.0 | 53,865.0 | North spoil area |
| 8/3/2010 | 102 | CY | 27.0 | 2,754.0 | 56,619.0 | North spoil area |
| 8/3/2010 | 39 | CY | 18.0 | 702.0 | 57,321.0 | North spoil area |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Channel Excavation | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Disposal Location |
| 8/4/2010 | 60 | CY | 27.0 | 1,620.0 | 58,941.0 | North spoil area |
| 8/4/2010 | 47 | CY | 18.0 | 846.0 | 59,787.0 | North spoil area |
| 8/5/2010 | 81 | CY | 27.0 | 2,187.0 | 61,974.0 | North spoil area |
| 8/5/2010 | 37 | CY | 18.0 | 666.0 | 62,640.0 | North spoil area |
| 8/6/2010 | 66 | CY | 27.0 | 1,782.0 | 64,422.0 | North spoil area |
| 8/6/2010 | 27 | CY | 18.0 | 486.0 | 64,908.0 | North spoil area |
| 8/7/2010 | 48 | CY | 27.0 | 1,296.0 | 66,204.0 | North spoil area |
| 8/7/2010 | 38 | CY | 18.0 | 684.0 | 66,888.0 | North spoil area |
| 8/9/2010 | 28 | CY | 27.0 | 756.0 | 67,644.0 | North spoil area |
| 8/9/2010 | 29 | CY | 18.0 | 522.0 | 68,166.0 | North spoil area |
| 8/10/2010 | 39 | CY | 27.0 | 1,053.0 | 69,219.0 | North spoil area |
| 8/10/2010 | 10 | CY | 18.0 | 180.0 | 69,399.0 | North spoil area |
| 8/10/2010 | 13 | CY | 18.0 | 234.0 | 69,633.0 | East spoil area |
| 8/11/2010 | 3 | CY | 27.0 | 81.0 | 69,714.0 | North spoil area |
| 8/11/2010 | 22 | CY | 18.0 | 396.0 | 70,110.0 | North spoil area |
| 8/12/2010 | 24 | CY | 27.0 | 648.0 | 70,758.0 | North spoil area |
| 8/12/2010 | 4 | CY | 18.0 | 72.0 | 70,830.0 | North spoil area |
| 8/13/2010 | 10 | CY | 27.0 | 270.0 | 71,100.0 | North spoil area |
| 8/14/2010 | 16 | CY | 27.0 | 432.0 | 71,532.0 | North spoil area |
| 8/16/2010 | 46 | CY | 27.0 | 1,242.0 | 72,774.0 | North spoil area |
| 8/17/2010 | 60 | CY | 27.0 | 1,620.0 | 74,394.0 | East spoil area |
| 8/18/2010 | 15 | CY | 27.0 | 405.0 | 74,799.0 | North spoil area |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Channel Excavation | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Disposal Location |
| 8/19/2010 | 7 | CY | 27.0 | 189.0 | 74,988.0 | East spoil area |
| 8/20/2010 | 3 | CY | 27.0 | 81.0 | 75,069.0 | Used to adjust bench elevations overcut due to design descrepancy |
| 8/23/2010 | 11 | CY | 27.0 | 297.0 | 75,366.0 | Sed pond ore stockpile |
| 8/24/2010 | 28 | CY | 27.0 | 756.0 | 76,122.0 | Sed pond ore stockpile |
| 8/26/2010 | 10 | CY | 27.0 | 270.0 | 76,392.0 | East spoil area |
| 8/26/2010 | 14 | CY | 27.0 | 378.0 | 76,770.0 | Relocated to rebuild where CMP was removed |
| 8/26/2010 | 8 | CY | 27.0 | 216.0 | 76,986.0 | Phosphoria Gulch |
| 8/27/2010 | 53 | CY | 27.0 | 1,431.0 | 78,417.0 | North spoil area |
| 8/28/2010 | 10 | CY | 27.0 | 270.0 | 78,687.0 | North spoil area |
| 8/31/2010 | 11 | CY | 27.0 | 297.0 | 78,984.0 | North spoil area |
| 9/1/2010 | 18 | CY | 27.0 | 486.0 | 79,470.0 | North spoil area |
| 9/2/2010 | 16 | CY | 27.0 | 432.0 | 79,902.0 | North spoil area |
| 9/8/2010 | 14 | CY | 18.0 | 252.0 | 80,154.0 | Septic disposal/ore storage area |
| 9/8/2010 | 15 | CY | 27.0 | 405.0 | 80,559.0 | Septic disposal/ore storage area |
| 9/9/2010 | 6 | CY | 18.0 | 108.0 | 80,667.0 | Septic disposal/ore storage area |
| 9/9/2010 | 23 | CY | 27.0 | 621.0 | 81,288.0 | Septic disposal/ore storage area |
| 9/10/2010 | 15 | CY | 18.0 | 270.0 | 81,558.0 | Septic disposal/ore storage area |
| 9/10/2010 | 16 | CY | 27.0 | 432.0 | 81,990.0 | Septic disposal/ore storage area |
| 9/11/2010 | 9 | CY | 18.0 | 162.0 | 82,152.0 | Septic disposal/ore storage area |
| 9/11/2010 | 17 | CY | 27.0 | 459.0 | 82,611.0 | Septic disposal/ore storage area |
| 9/13/2010 | 2 | CY | 27.0 | 54.0 | 82,665.0 | South spoil area |
| 9/13/2010 | 5 | CY | 18.0 | 90.0 | 82,755.0 | South spoil area |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Channel Excavation | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Disposal Location |
| 9/14/2010 | 5 | CY | 18.0 | 90.0 | 82,845.0 | South spoil area |
| 9/15/2010 | 3 | CY | 18.0 | 54.0 | 82,899.0 | South spoil area |
| 9/16/2010 | 10 | CY | 27.0 | 270.0 | 83,169.0 | Septic disposal/ore storage area |
| 9/16/2010 | 4 | CY | 18.0 | 72.0 | 83,241.0 | Septic disposal/ore storage area |
| 9/17/2010 | 22 | CY | 27.0 | 594.0 | 83,835.0 | East spoil area |
| 9/17/2010 | 8 | CY | 18.0 | 144.0 | 83,979.0 | South spoil area |
| 9/18/2010 | 2 | CY | 27.0 | 54.0 | 84,033.0 | East spoil area |
| 9/18/2010 | 4 | CY | 18.0 | 72.0 | 84,105.0 | East spoil area |
| 9/20/2010 | 6 | CY | 27.0 | 162.0 | 84,267.0 | East spoil area |
| 9/20/2010 | 4 | CY | 18.0 | 72.0 | 84,339.0 | East spoil area |
| 9/21/2010 | 21 | CY | 27.0 | 567.0 | 84,906.0 | Fill area between channel and USFS road, Sta 8+00 to 2+00 |
| 9/21/2010 | 16 | CY | 18.0 | 288.0 | 85,194.0 | Fill area between channel and USFS road, Sta 8+00 to 2+00 |
| 9/22/2010 | 42 | CY | 27.0 | 1,134.0 | 86,328.0 | Phase I rock borrow/spoil area |
| 9/22/2010 | 31 | CY | 18.0 | 558.0 | 86,886.0 | Phase I rock borrow/spoil area |
| 9/23/2010 | 17 | CY | 27.0 | 459.0 | 87,345.0 | Phase I rock borrow/spoil area |
| 9/23/2010 | 19 | CY | 18.0 | 342.0 | 87,687.0 | Phase I rock borrow/spoil area |
| 9/24/2010 | 6 | CY | 27.0 | 162.0 | 87,849.0 | Phase I rock borrow/spoil area |
| 9/24/2010 | 4 | CY | 18.0 | 72.0 | 87,921.0 | Phase I rock borrow/spoil area |
| 9/25/2010 | 5 | CY | 27.0 | 135.0 | 88,056.0 | Phase I rock borrow/spoil area |
| 9/27/2010 | 8 | CY | 27.0 | 216.0 | 88,272.0 | Fill area between channel and USFS road, Sta 8+00 to 2+00 |
| 9/29/2010 | 5 | CY | 18.0 | 90.0 | 88,362.0 | Phase I rock borrow/spoil area |
| 9/30/2010 | 2 | CY | 18.0 | 36.0 | 88,398.0 | Phase I rock borrow/spoil area |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Channel Excavation | | | | | | |
|---|---|---|---|---|---|---|
| **Date** | **Load Count** | **UM** | **Load Volume** | **Volume** | **Cumulitive** | **Notes and Disposal Location** |
| 10/1/2010 | 1 | CY | 18.0 | 18.0 | 88,416.0 | Phase I rock borrow/spoil area |
| 10/5/2010 | 5 | CY | 18.0 | 90.0 | 88,506.0 | Dud Hollow |
| | | | | | | |
| | | | | **Total** | **88,506.0** | Note: Does not account for bench soil excavated and placed that was not hauled in trucks |

CONESTOGA-ROVERS & ASSOCIATES

Reference No: 56902

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Demolition Debris (Concrete and Steel) | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Disposal Location |
| 6/19/2010 | 4 | CY | 27.0 | 108.0 | 108.0 | East (C&D Landfill) |
| 6/22/2010 | 4 | CY | 27.0 | 108.0 | 216.0 | East (C&D Landfill) |
| 6/24/2010 | 4 | CY | 27.0 | 108.0 | 324.0 | East (C&D Landfill) |
| 6/25/2010 | 7 | CY | 27.0 | 189.0 | 513.0 | East (C&D Landfill) |
| 6/26/2010 | 2 | CY | 27.0 | 54.0 | 567.0 | East (C&D Landfill) |
| 6/28/2010 | 12 | CY | 27.0 | 324.0 | 891.0 | East (C&D Landfill) |
| 7/1/2010 | 17 | CY | 27.0 | 459.0 | 1,350.0 | East (C&D Landfill) |
| 7/7/2010 | 11 | CY | 27.0 | 297.0 | 1,647.0 | East (C&D Landfill) |
| 7/8/2010 | 15 | CY | 27.0 | 405.0 | 2,052.0 | East (C&D Landfill) |
| 7/9/2010 | 39 | CY | 27.0 | 1,053.0 | 3,105.0 | East (C&D Landfill) |
| 7/10/2010 | 8 | CY | 27.0 | 216.0 | 3,321.0 | East (C&D Landfill) |
| 7/10/2010 | 3 | CY | 18.0 | 54.0 | 3,375.0 | East (C&D Landfill) |
| 7/12/2010 | 57 | CY | 27.0 | 1,539.0 | 4,914.0 | East (C&D Landfill) |
| 7/12/2010 | 31 | CY | 18.0 | 558.0 | 5,472.0 | East (C&D Landfill) |
| 7/13/2010 | 44 | CY | 27.0 | 1,188.0 | 6,660.0 | East (C&D Landfill) |
| 7/13/2010 | 30 | CY | 18.0 | 540.0 | 7,200.0 | East (C&D Landfill) |
| 7/14/2010 | 26 | CY | 27.0 | 702.0 | 7,902.0 | East (C&D Landfill) |
| 7/14/2010 | 13 | CY | 18.0 | 234.0 | 8,136.0 | East (C&D Landfill) |
| 7/15/2010 | 30 | CY | 27.0 | 810.0 | 8,946.0 | East (C&D Landfill) |
| 7/15/2010 | 11 | CY | 18.0 | 198.0 | 9,144.0 | East (C&D Landfill) |
| 7/16/2010 | 17 | CY | 27.0 | 459.0 | 9,603.0 | East (C&D Landfill) |
| 7/17/2010 | 25 | CY | 27.0 | 675.0 | 10,278.0 | East (C&D Landfill) |

CONESTOGA-ROVERS & ASSOCIATES

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

**Reference No: 56902**

| Demolition Debris (Concrete and Steel) | | | | | | |
|---|---|---|---|---|---|---|
| **Date** | **Load Count** | **UM** | **Load Volume** | **Volume** | **Cumulitive** | **Notes and Disposal Location** |
| 7/19/2010 | 37 | CY | 27.0 | 999.0 | 11,277.0 | East (C&D Landfill) |
| 7/20/2010 | 60 | CY | 27.0 | 1,620.0 | 12,897.0 | East (C&D Landfill). Load count includes material moved/relocated by dozer, truck, and loader |
| 7/21/2010 | 17 | CY | 27.0 | 459.0 | 13,356.0 | East (C&D Landfill) |
| 7/22/2010 | 29 | CY | 18.0 | 522.0 | 13,878.0 | East (C&D Landfill) |
| 7/27/2010 | 36 | CY | 27.0 | 972.0 | 14,850.0 | East (C&D Landfill) |
| 7/28/2010 | 15 | CY | 18.0 | 270.0 | 15,120.0 | East (C&D Landfill) |
| 7/28/2010 | 2 | CY | 27.0 | 54.0 | 15,174.0 | East (C&D Landfill) |
| 8/5/2010 | 11 | CY | 18.0 | 198.0 | 15,372.0 | East (C&D Landfill) |
| 8/6/2010 | 4 | CY | 18.0 | 72.0 | 15,444.0 | East (C&D Landfill) |
| 8/10/2010 | 8 | CY | 27.0 | 216.0 | 15,660.0 | East (C&D Landfill), scale pit near Dud Hollow |
| 8/11/2010 | 14 | CY | 27.0 | 378.0 | 16,038.0 | East (C&D Landfill), scale pit near Dud Hollow |
| | | | | | | |
| | | | | **Total** | **16,038.0** | Est volume based on full loads |
| | | | | | **50%** | Loss for voids and incomplete loads due to size of debris |
| | | | | **Total** | **8,019.0** | |

CONESTOGA-ROVERS & ASSOCIATES

Reference No: 56902

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| 3" Minus Screened Soil | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Location |
| 6/26/2010 | 13 | CY | 27.0 | 351.0 | 351.0 | Anchor Trench Backfill |
| 6/28/2010 | 17 | CY | 27.0 | 459.0 | 810.0 | Anchor Trench Backfill |
| 6/29/2010 | 21 | CY | 27.0 | 567.0 | 1,377.0 | Lift No 1 |
| 6/30/2010 | 13 | CY | 27.0 | 351.0 | 1,728.0 | Lift No 2 |
| 7/1/2010 | 15 | CY | 27.0 | 405.0 | 2,133.0 | Lift No 3 |
| 7/7/2010 | 14 | CY | 27.0 | 378.0 | 2,511.0 | Lift No 4 |
| 7/8/2010 | 15 | CY | 27.0 | 405.0 | 2,916.0 | Lift No 5 |
| 7/9/2010 | 22 | CY | 27.0 | 594.0 | 3,510.0 | Lift No 6 |
| 7/13/2010 | 45 | CY | 27.0 | 1,215.0 | 4,725.0 | Lift No 7 |
| 7/22/2010 | 82 | CY | 27.0 | 2,214.0 | 6,939.0 | Lift No 8, 9, & 10 |
| 7/30/2010 | 12 | CY | 18.0 | 216.0 | 7,155.0 | USFS Road Base - North Area |
| 8/11/2010 | 10 | CY | 27.0 | 270.0 | 7,425.0 | Backfill for Scale Pit |
| 9/28/2010 | 13 | CY | 27.0 | 351.0 | 7,776.0 | Backfill for CMP Inlet/Upstream Channel Slope |
| 9/29/2010 | 4 | CY | 18.0 | 72.0 | 7,848.0 | Backfill for CMP Inlet/Upstream Channel Slope |
| 9/29/2010 | 3 | CY | 18.0 | 54.0 | 7,902.0 | Backfill for Slurry Pit CMP Crossing |
| 9/29/2010 | 4 | CY | 27.0 | 108.0 | 8,010.0 | Fill area between channel and USFS road, Sta 8+00 to 2+00 |
| 9/30/2010 | 4 | CY | 27.0 | 108.0 | 8,118.0 | Fill area between channel and USFS road, Sta 8+00 to 2+00 |
| 9/30/2010 | 3 | CY | 18.0 | 54.0 | 8,172.0 | Backfill for CMP Inlet/Upstream Channel Slope |
| 10/4/2010 | 7 | CY | 18.0 | 126.0 | 8,298.0 | Ramp over culvert for access road at Sta 18+20 |
| | | | | | | |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| 3" Minus Screened Soil | | | | | | |
|---|---|---|---|---|---|---|
| Date | Load Count | UM | Load Volume | Volume | Cumulitive | Notes and Location |
| | | | | Total | 8,298.0 | |

CONESTOGA-ROVERS & ASSOCIATES

Reference No: 56872

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Ore Sediments (Excavated from Sedimentation Basin) | | | | | | |
|---|---|---|---|---|---|---|
| **Date** | **Load Count** | **UM** | **Load Volume** | **Volume** | **Cumulitive** | **Notes and Location** |
| 6/19/2010 | 30 | CY | 27.0 | 810.0 | 810.0 | Removed from Sedimentation Basin, stockpiled to south for SSP |
| 6/21/2010 | 68 | CY | 27.0 | 1,836.0 | 2,646.0 | Removed from Sedimentation Basin, stockpiled to south for SSP |
| 6/22/2010 | 43 | CY | 27.0 | 1,161.0 | 3,807.0 | Removed from Sedimentation Basin, stockpiled to south for SSP |
| 8/18/2010 | 54 | CY | 27.0 | 1,458.0 | 5,265.0 | Removed from Phosphoria Gulch |
| 8/19/2010 | 6 | CY | 27.0 | 162.0 | 5,427.0 | Phosphoria Gulch, stockpiled south of sed basin for SSP |
| 8/20/2010 | 23 | CY | 27.0 | 621.0 | 6,048.0 | Phosphoria Gulch, stockpiled south of sed basin for SSP |
| 8/21/2010 | 21 | CY | 27.0 | 567.0 | 6,615.0 | Phosphoria Gulch, stockpiled south of sed basin for SSP |
| 8/23/2010 | 34 | CY | 27.0 | 918.0 | 7,533.0 | Phosphoria Gulch, stockpiled south of sed basin for SSP |
| 8/24/2010 | 25 | CY | 27.0 | 675.0 | 8,208.0 | Phosphoria Gulch, stockpiled south of sed basin for SSP |
| 8/25/2010 | 65 | CY | 27.0 | 1,755.0 | 9,963.0 | Phosphoria Gulch, stockpiled south of sed basin for SSP |
| | | | | 6,156.0 | | |
| | | | | **Total** | **9,963.0** | |

CONESTOGA-ROVERS & ASSOCIATES

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

**Reference No: 56872**

| Site Reclamation (Seed, Mulch, Tecifier, and Fertilizer) by Area | | | | |
|---|---|---|---|---|
| **Location** | **UM** | **Area (Acre)** | **Cumulitive (Acre)** | **Notes** |
| North Spoil Area | Acre | 2.2 | 2.2 | Area provided by JB from IFC drawings |
| South Spoil Area | Acre | 0.9 | 3.1 | Area provided by JB from IFC drawings |
| East Spoil Area (C&D Landfill) and Temporary Facility Area | Acre | 3.2 | 6.3 | Measured by SSLTD |
| Phosphoria Gulch | Acre | 1.7 | 8.0 | Area provided by JB from IFC drawings |
| Dud Hollow | Acre | 2.4 | 10.4 | Measured by CRA/ERR |
| Channel Slopes | Acre | 4.5 | 14.9 | Measured by CRA/ERR, approx from ECM quantity |
| Top of channel slopes | Acre | 1.4 | 16.3 | Measured by CRA/ERR. Assumed 25' wide section approx 2500 LF in length at top of slope along channel |
| Phase I Rock Borrow/Stockpile Area | Acre | 1.1 | 17.4 | Measured by CRA/ERR |
| East slope of sedimentation basin | Acre | 0.3 | 17.7 | Measured by CRA/ERR |
| Fill area between channel and USFS road, Sta 2+00 to 8+00 | Acre | 1.1 | 18.8 | Measured by CRA/ERR |
| Spoil area between sedimentation basin and clarifier | Acre | 1.0 | 19.8 | Measured by CRA/ERR |
| East channel slope disturbed by bypass system | Acre | 0.2 | 20.0 | Measured by CRA/ERR |
| | | | | |
| | | **Total** | **20.0** | |

**Nu-West Industries**
**Central Farmers Fertilizer Facility**
**Phase II Construction - CMP Bypass Channel**
**Georgetown Canyon, ID**
**Material Tracking**

| Road Base | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | Source | Trucking Company | Truck | Ticket | UM | QTY | Volume | Location & Notes |
| | | | | | | TN/CY | 1.50 | |

**PREPARED BY:**

CONESTOGA-ROVERS & ASSOCIATES

4141 Davis Creek Court
Kalamazoo, MI 49001-0838
Telephone: (269) 344-1230 Fax: (269) 344-8558
www.CRAworld.com

# SUBMITTAL

**DATE:** June 10, 2010

**SUBMITTAL NO.:** 56902-04

**PROJECT NO.:** 56902

**PROJECT NAME:** Georgetown Canyon Remediation – Phase II

**CLIENT:** Nu-West Industries
3010 Conda Road
Soda Springs, ID 83276

**ENGINEER:** Norwest Corporation
136 E South Temple, 12th Floor
Salt Lake City, UT 84111

**SUPPLIER:** Ferguson
755 North Hooper Avenue
Soda Springs, ID 83276

**SUBCONTRACTOR:**

**MANUFACTURER:** Chevron Phillips

| QTY | SPEC. NO. & TITLE | DWG. NO. | DESCRIPTION / LOCATION INSTALLED |
|---|---|---|---|
| 1 | Specifications - Section 4.0 Technical Specifications; Subsections 4.5 CMP Culvert Installation | Sheet 5-6 & 5-7 Culverts | Proposed CMP Culvert Pipe: CONTECH HEL-COR 18-inch diameter, 16 gauge, galvanized steel, corrugated metal pipe |
| | | | |

**CONSTRUCTION MANAGER'S / ENGINEER'S REVIEW AND APPROVAL:**

**COPY TO:** John Brown (GET)
Paul Kos (Norwest)

**COMPLETED BY:** Dan White
[Please Print]

**SIGNED:**

Form1030

CONTECH CONSTRUCTION PRODUCTS INC.

# PIPE SELECTION CRITERIA & PROPERTIES

| | PRODUCT | | Diameter Range | Materials | Manning's "n" | Standard Lengths | Minimum Cover |
|---|---|---|---|---|---|---|---|
| CORRUGATED METAL PIPE | **Hel-Cor®**<br>2-2/3" x 1/2" | | 12" - 60" | Galvanized Steel<br>Aluminized Steel<br>Aluminum<br>Polymer Coated Steel | .012 - .020 | 20' - 30' | 12" or Span/8 |
| | **Hel-Cor®**<br>3" x 1" | | 48" - 144" | Galvanized Steel<br>Aluminized Steel<br>Polymer Coated Steel | .022 - .027 | 20' - 30' | 12" or Span/8 |
| | **Hel-Cor®**<br>5" x 1" | | 48" - 144" | | .022 - .025 | 20' - 30' | 12" or Span/8 |
| | **ULTRA FLO®**<br>(Spiral Rib)<br>3/4" x 3/4" x 7.5" | | 18" - 108" | Galvanized Steel<br>Aluminized Steel<br>Aluminum<br>Polymer Coated Steel | 0.012 | 20' - 30' | 12" or Span/8 |
| | **Smooth Cor™**<br>(Double Wall)<br>3" x 1" Shell<br>2-2/3" x 1/2" Shell<br>Smooth Liner | | 18" - 144" | Polymer Coated Steel | 0.012 | 20' - 30' | 12" or Span/8 |
| THERMOPLASTIC | **A-2000™ PVC**<br>ASTM F949 | | 4" - 36" | PVC Resin (12454) | 0.009 | 12.5', 14' or 22' | 12" |
| | **A2™ Liner Pipe**<br>(Rehabilitation) | | 12" - 36" | PVC Resin (12454) | 0.009 | 10' or 20' | 12" |
| | **D-2000™**<br>AASHTO M304 | | 12" - 36" | PVC Resin (12454) | 0.009 | 22' | 12" |
| | **TRUSS PIPE®**<br>ASTM D2680 | | 8" - 15" | PVC Resin (12454)<br>Lightweight Mearlcrete | 0.009 | 12.5' | 12" |
| | **Solid Wall PVC Pipe**<br>(SDR 35, 26, 23.5)<br>ASTM D3034 | | 4" - 6" | PVC Resin (12454) | 0.009 | 14' | 12" |
| STEEL REINFORCED THERMOPLASTIC | **DuroMaxx™**<br>Class 1 of<br>ASTM F2562 | | 24" - 72"<br>*84' - 96" coming soon* | Galvanized Steel<br>Reinforced HDPE | 0.012 | 14' or 20' | 12" |

CONTECH®
CONSTRUCTION PRODUCTS INC.

# Corrugated Metal Pipe

Knowledge. Solutions. Service.

# CONTECH® provides a full range of Corrugated Metal Pipe for severe-to-normal conditions

Coast-to-coast, engineers and contractors rely on CONTECH Corrugated Metal Pipe for culverts, storm sewers, small bridges, stormwater detention systems and conduits. No other type of drainage structure offers the range of structural strength that's available with Corrugated Metal Pipe—it performs where rigid pipe fails.

CONTECH Construction Products Inc. manufactures to repeatable and exacting standards HEL-COR® and ULTRA-FLO® pipe—which has a 0.012 Manning's "n"—in galvanized, Aluminized Steel Type 2, polymer coated and aluminum.

Numerous industry standards for pipe configurations, coatings and linings have been conceived and developed by CONTECH. That is how we have earned the reputation as the world leader in pipe design and innovation.

Long light weight sections make corrugated steel pipe easy to install.

## Corrugated Steel Pipe . . . The Core of Strength

Corrugated steel pipe is similar to the superstructure of a building in that it supports the interior walls and gives structure to the facade. Steel is the proven, strong-shouldered material that is coated with zinc, Aluminized Steel Type 2, tough polymer or asphalt to increase durability for prolonged design life. Corrugated steel pipe is the strength at the core of all coatings and linings.

CONTECH's Corrugated Steel Pipe provides the power and tenacity to your culverts, storm sewers and stormwater detention systems to withstand severe environmental conditions and burial depths. We offer coatings and linings to increase the life of installations up to 100 years as well as provide products with a Manning's "n" equivalent to other smooth wall drainage products.

**Two primary shapes**

Full-round pipe is recommended for most applications. However, for limited headroom conditions, CONTECH produces a pipe-arch shape. The low, wide pipe-arch design distributes the area horizontally to provide adequate capacity without raising the grade.

**Corrugations and wall thicknesses**

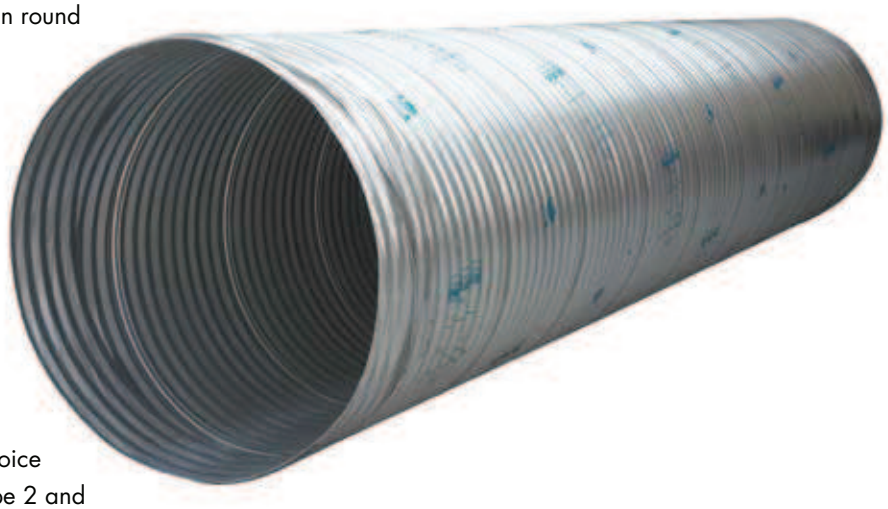
Both CONTECH Pipe and Pipe-Arch are produced in six wall thicknesses including 18, 16, 14, 12, 10 and 8 gage, which are available with either helical or annular corrugations. CONTECH HEL-COR® Pipe (helical corrugations) is furnished with continuous locked seams, and with rerolled annular ends. CONTECH riveted pipe is furnished with annular corrugations only.

Corrugations include 1-$^1/_2$" x $^1/_4$" and 2-$^2/_3$" x $^1/_2$" for economical and efficient metal use in small diameters; 3" x 1" and 5" x 1" offer high sectional properties in large-diameter pipe.

The wide variety of corrugations and thicknesses permits selection of materials for a balanced design to meet specific jobsite conditions. Each project can be designed individually for the most cost-effective combination of corrugations, thicknesses, sizes, materials and installations, maximizing your investment on a job-by-job basis. For guidance, call your local CONTECH sales representative.

# HEL-COR® Corrugated Steel Pipe

Helically corrugated HEL-COR steel pipe, available in round and pipe-arch shapes, has over 55 years of proven performance. It is manufactured with continuous locked seams with annular corrugated ends to use with soil-tight HUGGER® Bands.



Typical applications are culverts, stormwater detention systems, small bridges, conduits and storm sewers. A wide variety of wall thicknesses (gages), corrugations, diameters and pipe section lengths permit a choice of materials to meet specific job site requirements.

Durability requirements are addressed by a wide choice of materials: Galvanized Steel, Aluminized Steel Type 2 and polymer-coated steel. For increased hydraulic efficiency, HEL-COR SmoothCor® has a steel lining and HEL-COR SMOOTH-FLO® has a smooth, fully circumferential asphalt lining.

Standard fittings include tees, wyes, elbows, saddle branches, reducers and manifolds for detention systems. Manholes and catch basins are fabricated to meet specific job requirements.

As a construction shaft liner, HEL-COR Pipe, with or without ring beam stiffeners, can be supplied in diameters to 171".

Protective coatings and linings meet the requirements of the following specifications:

| Reference Specifications | | |
|---|---|---|
| Material | Galvanized Steel | AASHTO M218*<br>ASTM A 929 |
| | Aluminized Steel Type 2 | AASHTO M274*<br>ASTM A 929 |
| | Polymer-Coated Steel | AASHTO M246*<br>ASTM A 742<br>ASTM A 849 |
| | Aluminum Alloy | AASHTO M197*<br>ASTM B 744 |
| Pipe | Steel (Galvanized and Aluminized Steel Type 2, CSP and Ultra Flo)<br>Steel (Polymer-Coated, CSP, Ultra Flo, and SmoothCor) | AASHTO M36*<br>ASTM A 760<br>ASHTO M36*<br>AASHTO M245*<br>ASTM A 762 |
| | Aluminum (Corlix, Ultra Flo) | AASHTO M196*<br>ASTM B 745 |
| Coating/Lining | Asphalt | AASHTO M190*<br>ASTM A 849 |
| Design | Steel (CSP, Ultra Flo, SmoothCor) | AASHTO Section 12*<br>ASTM A 796 |
| | Aluminum (Corlix, Ultra Flo) | AASHTO Section 12*<br>ASTM A 790 |
| Installation | Steel (CSP, Ultra Flo, SmoothCor) | AASHTO Section 26*<br>ASTM A 798 |
| | Aluminum (Corlix, Ultra Flo) | AASHTO Section 26*<br>ASTM A 788 |

*AASHTO Standard Specification for Highway Bridges

## Over 55 years of proven performance

# CORLIX® Aluminum Pipe

**Long Service Life ... Economical**

CONTECH's CORLIX Aluminum Pipe provides a predictable service life of more than 75 years when installed in the recommended soil/water environment. It is ideal for municipal storm sewers, underground stormwater detention systems or any standard drainage project that must withstand corrosive environments.

**Economical**

Lower initial cost begins with CORLIX pipe's weight. It weighs only $^{1}/_{35}$ as much as reinforced concrete. Lighter weight means easier installation. Trench width and depths are reduced due to the smaller outside diameters, resulting in time and cost savings for both excavation and backfill.

Single lengths up to 40 feet ensure more accurate pipe alignment at time of placement and through the life of the system. Longer lengths save installation time with fewer joints. Even more footage per truckload is possible with bundles of nested pipe—and unloading time is minimal.

A CORLIX storm sewer system with prefabricated stubs eliminates the need for forming concrete junction boxes.

## Predictable service life of more than 75 years

CORLIX Aluminum Pipe can be installed in salt water environments.

# Storm Sewer Products

## ULTRA FLO® — smooth interior corrugated storm sewer pipe

**Manning's "n" of 0.012 ... Equal to Concrete Pipe**

ULTRA FLO has over 20 years of proven performance on municipal, transportation, residential development, shopping center and airport storm sewer and stormwater detention projects. ULTRA FLO's rapid acceptance is based on its Manning's "n" of 0.012, structural strength and faster/lower-cost installation than concrete. Plus, ULTRA FLO is available in galvanized steel, Aluminized Steel Type 2, polymer coated and aluminum to meet a wide variety of environmental and service life requirements. For projects with limited headroom, ULTRA FLO is available in pipe-arch.

**Superior Hydraulics**

Research at Utah State University shows that ULTRA FLO Storm Sewer Pipe Systems are hydraulically equivalent to reinforced concrete pipe. The Water Research Laboratory performed hydraulic tests on ULTRA FLO spiral-rib pipe with $^3/_4$" x $^3/_4$" x 7 $^1/_2$" continuous ribs. At full flow, the Manning's "n" was 0.012 (Report No. 1277 and 1278, 2002). For further reference, see FHWA Hydraulic Design Series No. 5, *December 1996*.

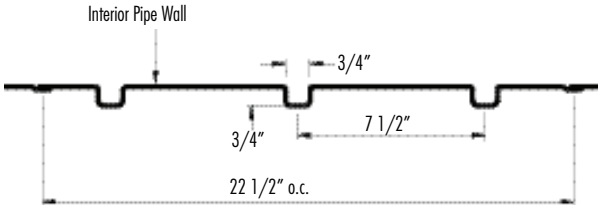
ULTRA FLO is one of the most hydraulically efficient storm sewer systems available because of its smooth interior surface and longer lengths, resulting in fewer joints and hydraulically efficient prefabricated junctions: elbows, manholes and catch basins.

**Installed Cost Savings**

Millions of feet of ULTRA FLO have been installed in thousands of storm sewer projects nationwide, providing significant cost savings. Because steel ULTRA FLO weighs less than 10% of concrete pipe, handling and installation costs are greatly reduced. Aluminum ULTRA FLO has only $^1/_{35}$ the weight of concrete pipe. Lower labor costs also result from fast and easy joining. CONTECH QUICK STAB® joints or coupling bands do not require special skills or tools. Twenty-foot standard lengths mean fewer joints and faster laying. And, longer lengths are available on special order. ULTRA FLO's smaller outside diameter permits a reduction in trench widths and depths, providing time and cost savings for both excavation and backfilling operations. Shop-fabricated fittings save installation time in the field while providing hydraulically efficient junctions.

Reduced excavation—because of ULTRA FLO's smaller outside diameter—lowers cost.

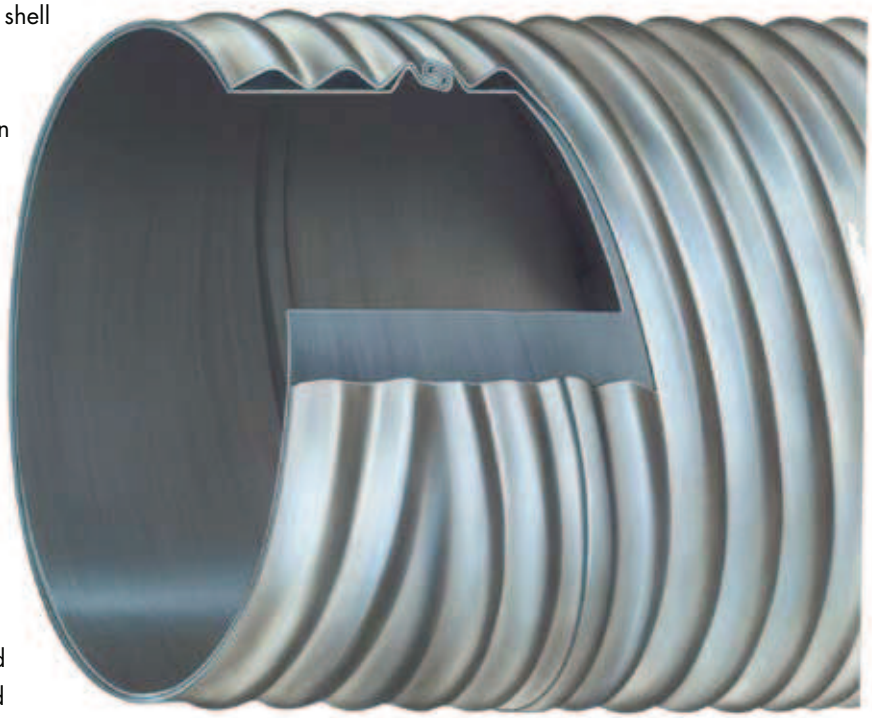
Smooth interior of ULTRA FLO pipe improves hydraulic capacity while the exterior box ribs provide structural strength.




External Rib Profile

# Smooth Cor™ —steel-lined corrugated steel pipe
# Manning's "n" = 0.012

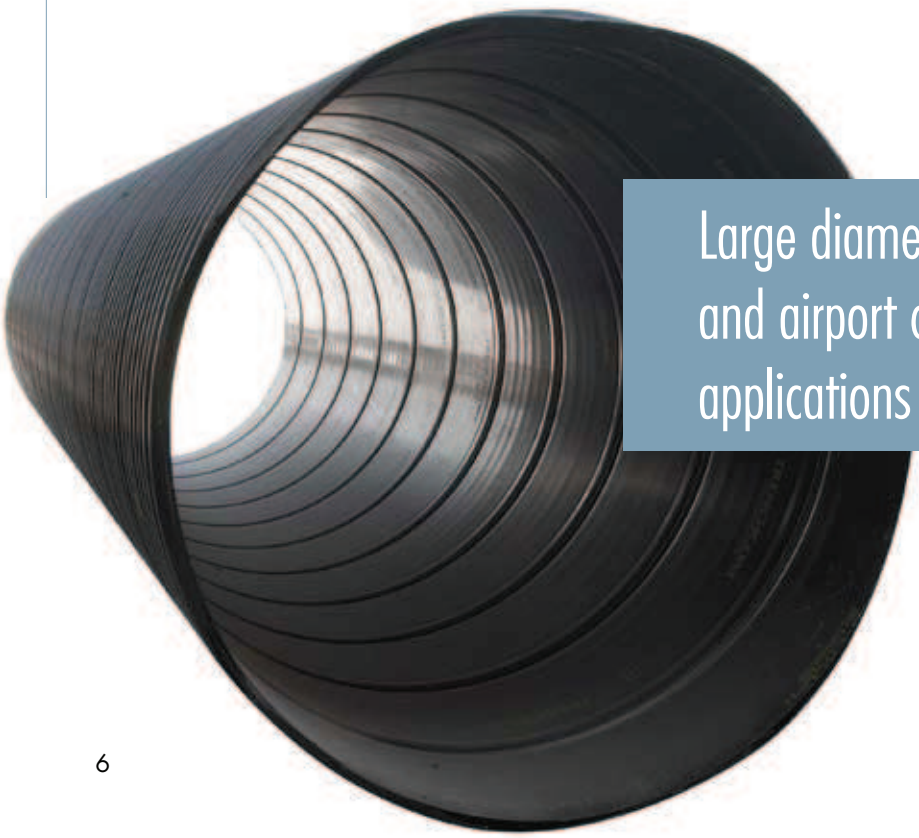
Smooth Cor is a smooth interior corrugated steel pipe. SmoothCor consists of a standard corrugated steel pipe as its structural exterior shell and includes a hydraulically smooth steel liner. The liner is continuously attached to the exterior shell along the lock seam. Both the interior liner and exterior shell are coated on both sides with TRENCHCOAT® polymer coating by Dow Chemical Company. Smooth Cor is also available in pipe-arch shape. Smooth Cor is covered by AASHTO M36, Type IA, Pipe Arch is Type IIA.



**Excellent hydraulics**

Smooth Cor, with its smooth interior surface, is hydraulically superior to conventional corrugated steel pipe and with fewer joints and tough polymer coating, outperforms reinforced concrete pipe.

Smooth Cor, with its long lengths, light weight, and beam strength, is superior to concrete pipe in many difficult situations such as weak soils, poor subsurface drainage conditions, steep slopes and high fills. It should be specified as an alternative under normal site conditions and specified exclusively under very difficult situations that demand the strength of CSP with positive joints and a hydraulically efficient smooth liner.



Large diameter storm sewers, DOT projects and airport construction are ideal applications for Smooth Cor.

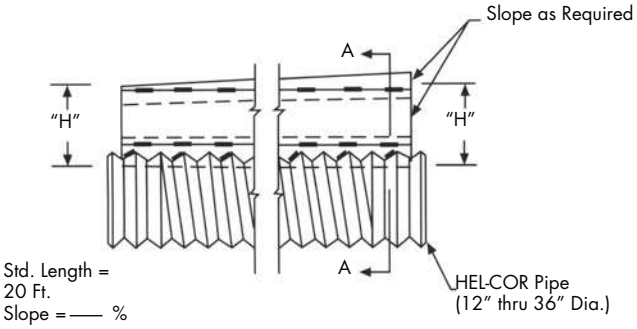
# Slotted Drain™—intercepts 50% more runoff

CONTECH Slotted Drain is a practical, continuous opening inlet for the efficient removal of surface water on streets and highways. The grate on a standard 20-foot length of Slotted Drain will intercept up to 50% more runoff than most standard 2′ x 2′ grate inlets. In parking lots, Slotted Drain removes sheet flow without complex multiple grades or water channeling devices like asphalt dikes, berms and curbs.

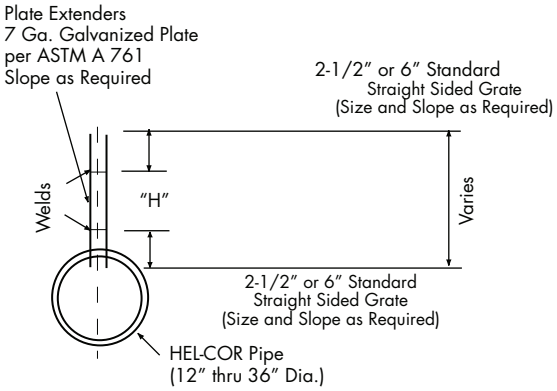
Slotted Drain is fabricated from corrugated steel pipe cut along a longitudinal axis with a trapezoidal or straight-sided grate. Reinforcing spacer plates are welded in place to form a 1 $^1/_2$″-inch-wide slot opening. The slot collects runoff and channels it to the pipe below.

Variable height grates (straight-sided) can be supplied for installation on flat grades. Generally, the grate built into variable-height grates is a maximum of 1%.

**See Variable Height Grate Drawing 1008732**




Side View




Section A-A

## Slotted Drain Applications

- Curb inlets
- Inlet systems across driveway cuts
- Shoulder drains along median barriers
- Pedestrian thoroughfares, malls and bicycle paths
- Parking lots
- Sidelines of sports fields in stadiums
- Airport aprons, taxiways, hangars and deicing areas

Trapezoidal design of the grate prevents clogging and debris build-up.

# Pipe Coating Alternatives

## Galvanized steel pipe

Pre-galvanizing is the most widely used and most economical metallic coating for corrugated steel pipe. Pre-galvanizing protects and extends service life. In addition to forming a physical barrier against corrosion, the zinc coating sacrifices itself slowly by galvanic action to protect the base steel. This action continues as long as any zinc remains. The design life of galvanized pipe—installed in a corrosive environment—can be extended by coating the pipe with asphalt.

## Aluminized Steel™ Type 2 pipe

Corrugated pipe is fabricated from steel that has been hot-dipped in commercially pure aluminum. Over 50 years of field-testing confirm that Aluminized Steel Type 2 corrugated steel pipe offers 75 years or more of maintenance free service life in the environmental ranges of pH 5-9 with resistivities as low as 1,500 ohm-cm.

**Excellent Barrier Protection**

Aluminum forms a passive aluminum oxide reaction product film that adds to the service life by providing good barrier protection. This passive film forms rapidly and maintains better protection over a wider environmental range than zinc reaction product films. The aluminum oxide passive film is effective in both hard and soft water.

The passive oxide film will endure as long as the free aluminum coating layer lasts. When this layer is eventually penetrated, there is an underlying hard, thick alumimum-iron alloy layer that provides further corrosion protection plus some significant abrasion protection.

In the environmental range of pH 5-9 and resistivities as low as 1,500 ohm-cm, 43-year old field installations have shown that the multiple layer coating protection of Aluminized Steel Type 2 provides a service life 3 to 10 times longer than plain galvanized steel.

In some cases, the pH/ resistivity ranges may be extended somewhat as is the case in arid regions where moisture availability is generally a controlling factor, and satisfactory service life may be realized at soil resistivities somewhat below the 1,500 ohm-cm lower limit. In wetter climates, satisfactory service life may be realized as soil pH values below the 5.0 lower limit when resistivities are relatively high.

# Polymer-Coated Corrugated Steel Pipe 100-Year protection against abrasion and corrosion

CONTECH Corrugated Steel Pipe with TRENCHCOAT® heavy-gage polymer coating offers long-term protection for storm drains and culverts. Even under harsh conditions, TRENCHCOAT protects against abrasion and corrosion to provide at least 100 years of service life.

This tough film, bonded to both the inside and outside of CONTECH's galvanized Corrugated Steel Pipe, serves as a protective barrier—resisting corrosion from acids, salts and alkalis found in today's storm sewers and culverts. The film has been subjected to chemical resistance tests such as ASTM A 543 and A 742. These tests and others, including exposure to detergent, 10% sodium hydroxide (pH 14), 10% sodium chloride, 10% hydrochloric acid (pH less than 0.1) and 10% ammonium hydroxide dramatically demonstrate the corrosion resistance of TRENCHCOAT film.

**TRENCHCOAT Site Research**

The Dow Chemical Company has conducted field studies of corrugated steel pipe with its TRENCHCOAT heavy-gage protective film—under various environmental conditions—at numerous sites throughout the United States. From this research, DOW predicts the following service life expectancies:

| Service Life | pH Levels | Resistivity |
|---|---|---|
| 100 Years | 5-9 | 1,500 ohm.cm> |
| 75 Years | 4-9 | 750 ohm.cm> |
| 50 Years | 3-12 | 250 ohm.cm> |

TRENCHCOAT is available on corrugated steel pipe and pipe-arch as well as hydraulically superior products—such as Smooth Cor and ULTRA FLO. Your local CONTECH sales engineer can provide details on availability.

A TRENCHCOAT corrugated steel pipe system also provides excellent performance in methane gas recovery applications in landfills. The CSP is structurally capable of handling the heavy and settling loads in a landfill and the TRENCHCOAT provides added corrosion resistance to the pipe.

If you have a project with corrosive soil conditions such as bluish-gray or green clays or other tough environmental conditions, corrugated steel pipe coated with TRENCHCOAT polymer protective coating may be the solution to your drainage problems.

Installed in 1975 by the Arkansas State Highway Department as a test installation, this 66"-diameter TRENCHCOAT corrugated steel pipe remains in excellent condition. After 31 years of exposure to pH 5.5, sediment and moderate abrasion, the triple-barreled structure keeps on performing. Also, test sites in Michigan, Wisconsin and New York—under harsh conditions—demonstrate the superb performance of TRENCHCOAT.

# Aluminum Durability

**Superior abrasion resistance**

CORLIX aluminum pipe's superior abrasion resistance has been proven through years of exposure to wet/dry abrasion-corrosion cycles. In normally abrasive runoffs, aluminum will only peen with minimum metal loss.

**Superior corrosion resistance**

CORLIX's superior corrosion resistance is achieved by a special aluminum clad culvert material. The rugged core alloy 3004- (H32 or H34) is rated as highly corrosion resistant. Then to increase its resistance, the aluminum culvert coil is clad on both sides with alloy 7072, which is anodic to the core alloy—protecting it both physically and electrochemically against corrosion. This is primarily due to a thin, tenacious, inert oxide barrier that forms on the metal surface when exposed to air. This tough, tightly adhering oxide barrier cannot be easily removed. If damaged or affected by an aggressive environment, it reforms. This is referred to as a "self-healing" effect. The oxide barrier appears on the pipe surface as a grayish-white coating that will build up over time.

Service-life expectancy studies on installed aluminum drainage products have been conducted since the early 1960s by state and federal agencies. 16 gage (0.060") corrugated aluminum pipe provides a predictable service life of 75+ years in the recommended soil/water environments with a pH range of 4.0 to 9.0 and a resistivity of 500 ohm-cm or greater.

In addition, good performance can be expected in seawater environments of 35 ohm-cm when the pipe is backfilled with a clean, free draining granular material.

With proper backfilling and cover, CORLIX is an excellent choice for drainage pipe.

For multiple barrel applications, CONTECH manufactures multi-outlet end sections.

## End Sections

CONTECH End Sections provide an economical, attractive, hydraulically efficient and durable inlet and outlet on culverts and storm sewers. End sections provide protection against erosion and scouring. They improve hydraulic capacity by channeling flow into and out of the pipe efficiently. They are also reusable if lengthening or relocating the drainage structure is necessary.

Galvanized End Sections present a clean-cut effect that is aesthetically pleasing. The tapered sides blend with the contour of the slope to increase roadside aesthetics. Compared with concrete headwalls, end sections are safer and easier to maintain. Weeds are cut easily with regular highway mowers. The wide opening minimizes collection of debris and silting.

End sections provide protection against erosion and scouring.

# Joints and Fittings

CONTECH Lock-Seam HEL-COR Pipe and Pipe-Arch feature universal ends, so a variety of standard couplings may be used.

**Hugger Joint**

CONTECH also offers the HUGGER® Joint. This joint uses an annular corrugation to fully engage each annular pipe end for 360°. When used with optional rubber O-ring gaskets, the HUGGER Joint is the industry's tightest.

**QUICK STAB® Joint Saves Time and Money With Faster Pipe Coupling**

The CONTECH QUICK STAB joint speeds installation, reducing your costs— installing storm sewers and culverts has never been easier or faster.

The QUICK STAB joint is a bell and spigot joining system with the bell only 1-1/2" larger than the pipe. It is attached to the pipe at the factory, then shipped to the job site ready for installation.

Bell and spigot joints speed installation and provide the same soil tightness as HUGGER bands.

CONTECH HUGGER® Joint is the industry's tightest

CONTECH QUICK STAB save time and money over conventional banding systems.

**Fittings**

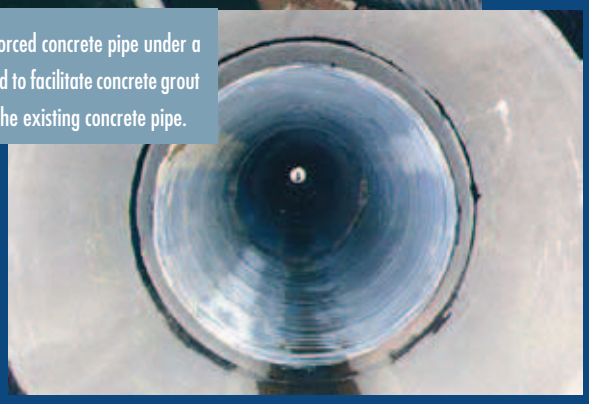
Standard fittings such as tees, wyes, elbows, saddle branches, manifolds and reducers are available for CONTECH Pipe and Pipe-Arches. Special fittings, including manholes and catch basins, can be fabricated to meet your needs.

CONTECH is a leader in Underground Detention Systems. Pre-fabricated fittings can be designed and constructed to efficiently meet project requirements.

# Rehabilitating Aging Structures

As our infrastructure ages, the roadway, water management and sewer control systems are deteriorating and losing integrity. Maintaining these critical structures is a major challenge.

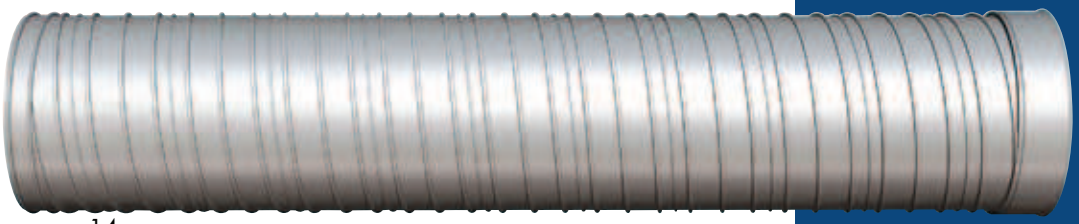
However, it is often possible to salvage failing structures and eliminate the time, cost and safety problems of complete replacement. Restoring structural and/or hydraulic capacity without road closure is usually achieved with less time, expense and disruption than the replacement alternative. CONTECH offers a variety of products and systems to facilitate rehabilitation of storm and sanitary sewers, culverts and bridges.



Corrugated Steel Pipe was used to repair a failing reinforced concrete pipe under a height of cover of 91 feet. Grout couplings were furnished to facilitate concrete grout placement between the new corrugated steel pipe and the existing concrete pipe.

CONTECH offers a variety of products and systems to facilitate rehabilitation

The New York State Department of Transportation relined this aging drainage structure with steel ULTRA-FLO pipe, restoring its hydraulic and structural properties while avoiding costly and time-consuming replacement.



# Pipe MPV — Mobile Production Vehicle

CONTECH'S PIPE MPV is a two-truck mobile production vehicle that provides fast and cost effective on-site steel pipe manufacturing. The MPV is designed to be a self-supporting factory that can be quickly deployed and put into production. Once on site, pipe manufacturing progresses quickly enough to allow pipe installation within four hours.

The PIPE MPV can produce corrugated metal pipe in a variety of sizes. Diameters from 3 to 16 feet and lengths up to 35 feet can be accommodated. This pipe meets the same levels of quality construction as does all CONTECH manufactured pipe, with high coil feedrate speeds and the same lock-seam edge process used in conventional pipe manufacturing. The PIPE MPV is intermodal and can be moved via truck, train or ship.

## The PIPE MPV is ideal for:

- Remote Jobs
- Projects requiring large continuous pipe production (windmill foundation forms, vertical shafts, caissons)
- Support for natural disasters where immediate deployment and rebuilding is required
- Sites with limited storage space or restricted traffic patterns

**Air Power/Windmill –** CONTECH large-diameter CMP – manufactured with the Pipe MPV – is used as a deep foundation form at the base of the wind-mill. CMP is placed vertically to act as a form for the poured-in-place concrete foundation along with being used in the many access roads.

# Site Development Solutions

## From normal to severe conditions, CONTECH provides a full-range of corrugated metal pipe for culverts, storm sewers, small bridges, stormwater detention systems and conduits.

CONTECH Construction Products Inc. provides site solutions for the civil engineering industry. CONTECH's portfolio includes bridges, drainage, retaining walls, sanitary sewer, stormwater, erosion control and soil stabilization products.

For more information, call one of CONTECH's Regional Offices located in the following cities:

| | |
|---|---|
| **Ohio (Corporate Office)** | **513-645-7000** |
| California (Long Beach) | 562-733-0733 |
| Colorado (Denver) | 720-587-2700 |
| Florida (Tampa) | 727-544-8811 |
| Georgia (Atlanta) | 770-409-0814 |
| Maine (Scarborough) | 207-885-9830 |
| Maryland (Baltimore) | 410-740-8490 |
| Oregon (Portland) | 503-258-3180 |
| Texas (Dallas) | 972-590-2000 |

Visit our web site: www.contech-cpi.com
800.338.1122

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TRENCHCOAT is a registered trademark of The Dow Chemical Company.

BRO-CMP-5 3M 2/10 MC

STEEL

RECYCLED PAPER

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**PREPARED BY:**

CONESTOGA-ROVERS & ASSOCIATES

4141 Davis Creek Court
Kalamazoo, MI 49001-0838
Telephone: (269) 344-1230 Fax: (269) 344-8558
www.CRAworld.com

# SUBMITTAL

**DATE:** May 26, 2010

**SUBMITTAL NO.:** 56902-01

**PROJECT NO.:** 56902

**PROJECT NAME:** Georgetown Canyon Remediation – Phase II

**CLIENT:** Nu-West Industries
3010 Conda Road
Soda Springs, ID 83276

**ENGINEER:** Norwest Corporation
136 E South Temple, 12th Floor
Salt Lake City, UT 84111

**SUPPLIER:** Ferguson
755 North Hooper Avenue
Soda Springs, ID 83276

**SUBCONTRACTOR:**

**MANUFACTURER:** Propex, Inc.

| QTY | SPEC. NO. & TITLE | DWG. NO. | DESCRIPTION / LOCATION INSTALLED |
|---|---|---|---|
| 1 | Specifications - Section 4.0 Technical Specifications; Subsections 4.2 Geotextile Fabric | Sheet 5-8 CMP Crossing Detail | Proposed geotextile fabric: GEOTEX 801, 8 oz needle punched non-woven geotextile fabric, manufactured by Propex, Inc. |
| | | | |

**CONSTRUCTION MANAGER'S / ENGINEER'S REVIEW AND APPROVAL:**

**COPY TO:** John Brown (GET)
Paul Kos (Norwest)

**COMPLETED BY:** Dan White
[Please Print]

**SIGNED:**

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# PRODUCT DATA SHEET

## GEOTEX® 801

**GEOTEX 801** is a polypropylene, staple fiber, needlepunched nonwoven geotextile produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The fibers are needled to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

**GEOTEX 801** conforms to the property values listed below.[1] Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

| | | MARV[2] | |
|---|---|---|---|
| PROPERTY | TEST METHOD | ENGLISH | METRIC |
| **Mechanical** | | | |
| Mass/Unit Area (Typical) | ASTM D-5261 | 8.0 oz/yd$^2$ | 271 g/m$^2$ |
| Tensile Strength (Grab) | ASTM D-4632 | 205 lbs | 912 N |
| Elongation | ASTM D-4632 | 50% | 50% |
| Puncture | ASTM D-4833 | 110 lbs | 490 N |
| CBR Puncture | ASTM D-6241 | 525 lbs | 2335 N |
| Mullen Burst | ASTM D-3786 | 350 psi | 2413 kPa |
| Trapezoidal Tear | ASTM D-4533 | 80 lbs | 356 N |
| **Endurance** | | | |
| UV Resistance % Retained at 500 hrs | ASTM D-4355 | 70% | 70% |
| **Hydraulic** | | | |
| Apparent Opening Size (AOS)[3] | ASTM D-4751 | 80 US Std. Sieve | 0.180 mm |
| Permittivity | ASTM D-4491 | 1.50 sec$^{-1}$ | 1.50 sec$^{-1}$ |
| Water Flow Rate | ASTM D-4491 | 110 gpm/ft$^2$ | 4480 l/min/m$^2$ |
| **Roll Sizes** | | 12.5 ft x 360 ft<br>15 ft x 300 ft | 3.81 m x 109.8 m<br>4.57 m x 91.5 m |

NOTES:

1. The property values listed above are effective 02/2009 and are subject to change without notice.
2. Values shown are in weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
3. Maximum average roll value.

PROPEX® GEOSYNTHETICS | THE ADVANTAGE CREATORS.™

Propex Inc.
6025 Lee Highway, Suite 425
PO Box 22788
Chattanooga, TN 37422

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PH: 800 621 1273
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www.geotextile.com

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www.CRAworld.com

# SUBMITTAL

**DATE:** May 26, 2010

**SUBMITTAL NO.:** 56872-02

**PROJECT NO.:** 56902

**PROJECT NAME:** Georgetown Canyon Remediation – Phase II

**CLIENT:** Nu-West Industries
3010 Conda Road
Soda Springs, ID 83276

**ENGINEER:** Norwest Corporation
136 E South Temple, 12th Floor
Salt Lake City, UT 84111

**SUPPLIER:** Ferguson
755 North Hooper Avenue
Soda Springs, ID 83276

**SUBCONTRACTOR:**

**MANUFACTURER:** Chevron Phillips

| QTY | SPEC. NO. & TITLE | DWG. NO. | DESCRIPTION / LOCATION INSTALLED |
|---|---|---|---|
| 1 | Specifications - Section 3.0 Execution; Subsections 3.6 CMP Abandonment | Sheet 5-8 CMP Crossing Detail | Proposed 12" discharge piping for CMP Crossings: 12-inch dia. X 40-foot SDR11 HDPE Pipe |
| | | | |

**CONSTRUCTION MANAGER'S / ENGINEER'S REVIEW AND APPROVAL:**

**COPY TO:** John Brown (GET)
Paul Kos (Norwest)

**COMPLETED BY:** Dan White
[Please Print]

**SIGNED:**

Form1030

For more information and technical
assistance contact:

Performance Pipe, a division of
Chevron Phillips Chemical Company LP
P.O. Box 269006
Plano, TX 75026-9006
800.527.0662

# DriscoPlex®
# PE4710 / (PE3408)
## Pipe and Fittings Data Sheet

**Typical material Physical Properties of DriscoPlex® PE4710 / (3408)**

High Density Polyethylene Materials

| Property | Unit | Test Procedure | Typical Value |
|---|---|---|---|
| Material Designation | --- | PPI TR-4 | PE4710 |
| Cell Classification | --- | ASTM D3350 | 445474C |
| **Pipe Properties** | | | |
| Density | gms / $cm^3$ | ASTM D1505 | 0.960 (black) |
| Melt Index<br>Condition 190 / 2.16 | gms / 10 minutes | ASTM D1238 | 0.05 |
| Hydrostatic Design Basis<br>73°F (23°C) | psi | ASTM D2837 | 1600 |
| Hydrostatic Design Basis<br>140°F (60°C) | psi | ASTM D2837 | 800 |
| **Material Properties** | | | |
| Flxural Modulus<br>2% Secant - 16:1 span: depth, 0.5 in / min | psi | ASTM D790 | >115,000 |
| Tensile Strength at Yield | psi | ASTM D638<br>Type IV | >3400 |
| Elongation at Break<br>2 in / min., Type IV bar | % | ASTM D638 | >700 |
| Elastic Modulus | psi | ASTM D638 | >175,000 |
| Hardness | Shore D | ASTM D2240 | 62 |
| PENT | hrs | ASTM F1473 | >500 |
| **Thermal Properties** | | | |
| Vicat Softening Temperature | °F | ASTM D1525 | 256 |
| Brittleness Temperature | °F | ASTM D746 | -103 |
| Thermal Expansion | in / in / °F | ASTM D696 | $1.0 \times 10^{-4}$ |



Another quality product from
Chevron Phillips Chemical Company LP
The Woodlands, Texas

Before using the piping product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the piping product for the specific use in question and is further advised against relying on the information contained hereir as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the piping product is suited and the information is applicable to the user's specific application. This data sheet provides typical physical property information for polyethylene resins used to manufacture the piping product. It is intended for comparing polyethylene piping resins. It is not a product specification, and it does not establish minimum or maximum values or manufacturing tolerances for resins or for the piping product. These typical physical property values were determined using compression-molded plaques prepared from resin. Values obtained from tests of specimens taken from the piping product can vary from these typical values. Performance Pipe does not make, and expressly disclaims, all warranties, of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, allegedly arising from any usage of trade or from any course of dealing in connection with the use of information contained herein or the piping product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with th

For more information and technical
assistance contact:

Performance Pipe, a division of
Chevron Phillips Chemical Company LP
P.O. Box 269006
Plano, TX 75026-9006
800.527.0662

Members Of: PLASTICS·PIPE·INSTITUTE™

NOTICE: This data sheet provides tpical physical property information for polyethylene resins used to manufacture PERFORMANCE PIPE polyethylene piping products. It is intended for comparing polyethylene piping resins. It is not a product specification, and it does not establish minimum or maximum values or manufacturing tolerances for resins or for piping products. Some of these typical physical property values were determined using compression molded plaques. Values obtained from tests of specimens taken from piping product can vary from these typical values. Performance Pipe has made every reasonable effort to ensure the accuracy of this data sheet, but this data sheet may not provide all necessary information, particularly with respect to special or unusual applications. The data sheet may be changed from time to time without notice. Contact Performance Pipe to determine if you have the most recent edition.



Another quality product from Chevron Phillips Chemical Company LP The Woodlands, Texas

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# SUBMITTAL

**DATE:** May 26, 2010

**SUBMITTAL NO.:** 56872-01

**PROJECT NO.:** 56902

**PROJECT NAME:** Georgetown Canyon Remediation – Phase II

**CLIENT:** Nu-West Industries
3010 Conda Road
Soda Springs, ID 83276

**ENGINEER:** Norwest Corporation
136 E South Temple, 12th Floor
Salt Lake City, UT 84111

**SUPPLIER:** Ferguson
755 North Hooper Avenue
Soda Springs, ID 83276

**SUBCONTRACTOR:**

**MANUFACTURER:** Propex, Inc.

| QTY | SPEC. NO. & TITLE | DWG. NO. | DESCRIPTION / LOCATION INSTALLED |
|---|---|---|---|
| 1 | Specifications - Section 4.0 Technical Specifications; Subsections 4.2 Geotextile Fabric | Sheet 5-8 CMP Crossing Detail | Proposed geotextile fabric: GEOTEX 801, 8 oz needle punched non-woven geotextile fabric, manufactured by Propex, Inc. |
| | | | |

**CONSTRUCTION MANAGER'S / ENGINEER'S REVIEW AND APPROVAL:**

**COPY TO:** John Brown (GET)
Paul Kos (Norwest)

**COMPLETED BY:** Dan White
[Please Print]

**SIGNED:**

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# PRODUCT DATA SHEET

## GEOTEX® 801

**GEOTEX 801** is a polypropylene, staple fiber, needlepunched nonwoven geotextile produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The fibers are needled to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

**GEOTEX 801** conforms to the property values listed below.[1] Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

| | | MARV[2] | |
|---|---|---|---|
| PROPERTY | TEST METHOD | ENGLISH | METRIC |
| **Mechanical** | | | |
| Mass/Unit Area (Typical) | ASTM D-5261 | 8.0 oz/yd$^2$ | 271 g/m$^2$ |
| Tensile Strength (Grab) | ASTM D-4632 | 205 lbs | 912 N |
| Elongation | ASTM D-4632 | 50% | 50% |
| Puncture | ASTM D-4833 | 110 lbs | 490 N |
| CBR Puncture | ASTM D-6241 | 525 lbs | 2335 N |
| Mullen Burst | ASTM D-3786 | 350 psi | 2413 kPa |
| Trapezoidal Tear | ASTM D-4533 | 80 lbs | 356 N |
| **Endurance** | | | |
| UV Resistance % Retained at 500 hrs | ASTM D-4355 | 70% | 70% |
| **Hydraulic** | | | |
| Apparent Opening Size (AOS)[3] | ASTM D-4751 | 80 US Std. Sieve | 0.180 mm |
| Permittivity | ASTM D-4491 | 1.50 sec$^{-1}$ | 1.50 sec$^{-1}$ |
| Water Flow Rate | ASTM D-4491 | 110 gpm/ft$^2$ | 4480 l/min/m$^2$ |
| **Roll Sizes** | | 12.5 ft x 360 ft<br>15 ft x 300 ft | 3.81 m x 109.8 m<br>4.57 m x 91.5 m |

NOTES:

1. The property values listed above are effective 02/2009 and are subject to change without notice.
2. Values shown are in weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
3. Maximum average roll value.

PROPEX® GEOSYNTHETICS | THE ADVANTAGE CREATORS.™

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4141 Davis Creek Court
Kalamazoo, MI 49001-0838
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# SUBMITTAL

**DATE:** August 30, 2010

**SUBMITTAL NO.:** 56902-06

**PROJECT NO.:** 56902

**PROJECT NAME:** Georgetown Canyon Remediation – Phase II

**CLIENT:** Nu-West Industries
3010 Conda Road
Soda Springs, ID 83276

**ENGINEER:** Norwest Corporation
136 E South Temple, 12th Floor
Salt Lake City, UT 84111

**SUPPLIER:** GreenFix America

**SUBCONTRACTOR:** Evans Range Reclamation

**MANUFACTURER:**

| QTY | SPEC. NO. & TITLE | DWG. NO. | DESCRIPTION / LOCATION INSTALLED |
|---|---|---|---|
| 1 | Specifications - Section 4.0 Technical Specifications; Subsections 4.3 Erosion Control Blanket | Sheet 5-7 & 5-8 | ECM Materials for lining channel slopes; Type 2D ECM (12 MTH longevity) for above 100 yr flow level, Type 3B ECM (36 MTH longevity) for below 100 yr flow level. |
| | | | |

**CONSTRUCTION MANAGER'S / ENGINEER'S REVIEW AND APPROVAL:**

**COPY TO:** John Brown (GET)
Paul Kos (Norwest)

**COMPLETED BY:** Dan White
[Please Print]

**SIGNED:**

Form1030

# CERTIFICATE OF COMPLIANCE
# BLANKET TYPE: CFS072R

**Manufacturer:**
Greenfix America, LLC
P.O. Box 1459
Brawley, CA 92227

**Greenfix America, LLC certifies that the CFS072R Erosion Control Blanket contains the following properties and characteristics:**

**BASIC USE-**
The CFS072R agricultural straw/coconut fiber erosion control blanket is designed for erosion protection mulching and revegetation applications to limit the potential for sediment release on 2:1-1:1 unvegetated slopes with medium to heavy rainfall intensities and for medium flow channels. Also utilized for cut and fill slopes and for mine / land fill reclamation. May be used on steeper slopes when used in conjunction with an approved slope interrupter device (SID) or as recommended by a qualified design consultant.

**MATERIAL SOURCE-**
The CFS072R consists of select high quality agricultural straw certified by the USDA to be free of Canadian thistle and other noxious weeds.

**MATERIALS AND PROPERTIES-**
The blanket is machine produced using select agricultural straw fiber and a minimum of 30% coconut fiber evenly distributed over the entire area of the blanket. The straw fibers are sewn into a heavy weight photo degradable top net and a medium weight bottom net. The blankets are 8'x95-6' (85 sq. yds.) at a minimum weight of .7 lbs. per square yard. The functional longevity is approximately 18-24 Months. The blankets are rolled and then packaged in a degradable recycled poly sleeve.

**INSTALLATION-**
The CFS072R erosion control blanket should be installed only after proper soil preparation is completed. All Greenfix America blankets are designed for ease of installation. The blanket material should be unrolled with the heavy weight net on the top side before anchoring. Please reference the installation guidelines.

**MATERIAL CONTENT AND ROLL SPECIFICATIONS**

- **Straw Fiber-** 70% agricultural straw and 30% coconut fiber at .7 lbs. / sq. yd. minimum. (.379 kg./sq. meter)
- **Netting-** Heavyweight, photo degradable top net at 3.0 lbs./1,000 sq. ft. (13mm x 13mm).
  Medium weight, photo degradable bottom net at 1.6 lbs./1,000 sq. ft. (13mm x 13mm).
- **Thread -** Cotton / Polyester filament, degradable.
- **Stitching-** 1.5 inch centers (5.08 cm - 10.16 cm.)
- **Width -** 8.0 ft. (2.4 m)
- **Length-** 95.6 ft.(29.1 m)
- **Weight -** Minimum of 59 lbs. per roll (26.7 kg)
- **Area -** 85 sq. yds. (71 sq. meters)

## WARRANTY-
Greenfix America, LLC warrants that its products are free from defects and will perform as stated in this literature. However, it is recommended that the product be stored in its package or under cover prior to installation. Greenfix America, LLC warrants the performance of their product from failure for a period of 60 days after purchase provided that the product was used in an application that was designed and specified by a qualified engineer. If our product does not meet products specifications, notice of failure must be received within 15 days of failure. Greenfix America, LLC will not warrant that the product will perform under unlimited circumstances that are caused by soil conditions, installation, and/or weather variables. Failure is defined as excessive soil loss as determined not to be caused by the variables mentioned above. To the best of our knowledge, the information contained herein is accurate and final suitability of the product is the sole responsibility of the user.

# CERTIFICATE OF COMPLIANCE
# BLANKET TYPE: CFO72RR

**Manufacturer:**
Greenfix America, LLC
P.O. Box 1459
Brawley, CA 92227

## Greenfix America, LLC certifies that the CF072RR Erosion Control Blanket contains the following properties and characteristics:

**BASIC USE-**
The CF072RR coconut fiber erosion control blanket is designed for erosion protection, channel lining and revegetation applications to limit the potential for sediment release on extreme 1:1 unvegetated slopes with high flow runoff conditions and for high flow channels. Also utilized for cut and fill slopes and for mine / land fill reclamation. May be used on steeper slopes and high discharge applications when used in conjunction with an approved slope interrupter device (SID) or as recommended by a qualified design consultant.

**MATERIAL SOURCE-**
The CF072RR consists of the highest quality coconut fiber.

**MATERIALS AND PROPERTIES-**
The blanket is machine produced using 100% coconut fiber, evenly distributed over the entire area of the blanket. The fibers are sewn into a heavy weight photo degradable top and bottom net. The blankets are 8'x95.6' (85 sq. yds.) at a minimum weight of .7 lbs. per square yard. The functional longevity is approximately 36 Months. The blankets are rolled and then packaged in a degradable recycled poly sleeve.

**INSTALLATION-**
The CF072RR erosion control blanket should be installed only after proper soil preparation is completed. All Greenfix America blankets are designed for ease of installation. Please reference the installation guidelines.

**MATERIAL CONTENT AND ROLL SPECIFICATIONS-**

- **Fiber** - 100% high quality coconut fiber at .7 lbs. per sq. yd. minimum. (.379 kg./sq. meter)
- **Netting -** Heavyweight, UV stabilized top and bottom nets at 3.0 lbs./1000 sq.ft. (13mm x 13mm).
- **Thread** - Heavyweight, UV stabilized Polypropylene
- **Stitching** - 1.5 inch centers (3.810 cm.)
- **Width** - 8.0 ft. (2.4 m)
- **Length** - 95.6 ft.(29.1 m)
- **Weight** - Minimum of 59 lbs. per roll (26.7 kg)
- **Area** - 85 sq. yds. (71 sq. meters)

**WARRANTY-**
Greenfix America, LLC warrants that its products are free from defects and will perform as stated in this literature. However, it is recommended that theproduct be stored in its package or under cover prior to installation. Greenfix America, LLC warrants the performance of their product from failure for a period of 60 days after purchase provided that the product was used in an application that was designed and specified by a qualified engineer. If our product does not meet products specifications, notice of failure must be received within 15 days of failure. Greenfix America, LLC will not warrant that the product will perform under unlimited circumstances that are caused by soil conditions, installation, and/or weather variables. Failure is defined as excessive soil loss as determined not to be caused by the variables mentioned above. To the best of our knowledge, the information contained herein is accurate and final suitability of the product is the sole responsibility

# CERTIFICATE OF COMPLIANCE
# BLANKET TYPE: CFO72B

**Manufacturer:**
Greenfix America, LLC
P.O. Box 1459
Brawley, CA 92227

**Greenfix America, LLC certifies that the CF072B Biodegradable Erosion Control Blanket contains the following properties and characteristics:**

**BASIC USE-**
The CF072B coconut fiber erosion control blanket is designed for environmentally sensitive erosion protection, channel lining and revegetation applications to limit the potential for sediment release on extreme 1:1 unvegetated slopes with high flow runoff conditions and for high flow channels. Also utilized for cut and fill slopes and for mine / land fill reclamation. May be used on steeper slopes and high discharge applications as recommended by a qualified design consultant.

**MATERIAL SOURCE-**
The CF072B consists of the highest quality coconut fiber.

**MATERIALS AND PROPERTIES-**
The blanket is machine produced using 100% coconut fiber, evenly distributed over the entire area of the blanket. The coconut fibers are sewn into a biodegradable natural organic fiber mesh on the top and bottom surface. The blankets are 8'x95.6' (85 sq. yds.) at a minimum weight of .7 lbs. per square yard. The functional longevity is approximately 36 months. The blankets are rolled and then packaged in a degradable recycled poly sleeve.

**INSTALLATION-**
The CF072B erosion control blanket should be installed only after proper soil preparation is completed. All Greenfix America blankets are designed for ease of installation. Please reference the installation guidelines

**MATERIAL CONTENT AND ROLL SPECIFICATIONS**

**Fiber -** 100% high quality coconut fiber at .7 lbs. per sq. yd. minimum. (.379 kg./sq. meter)

- **Netting** - Natural fiber top and bottom net at 9.3 lbs./1000 sq.ft.
- **Thread** - Flat or spun cotton polyester, degradable.
- **Stitching** - 1.5 inch centers (3.810 cm.)
- **Width** - 8.0 ft. (2.4 m)
- **Length** - 95.6 ft.(29.1 m)
- **Weight** - Minimum of 59 lbs. per roll (26.7 kg)
- **Area** - 85 sq. yds. (71 sq. meters)
- **Biodegradability** - 100% biologically degradable materials

## WARRANTY-
Greenfix America, LLC warrants that its products are free from defects and will perform as stated in this literature. However, it is recommended that the product be stored in its package or under cover prior to installation. Greenfix America, LLC warrants the performance of their product from failure for a period of 60 days after purchase provided that the product was used in an application that was designed and specified by a qualified engineer. If our product does not meet products specifications, notice of failure must be received within 15 days of failure. Greenfix America, LLC will not warrant that the product will perform under unlimited circumstances that are caused by soil conditions, installation, and/or weather variables. Failure is defined as excessive soil loss as determined not to be caused by the variables mentioned above. To the best of our knowledge, the information contained herein is accurate and final suitability of the product is the sole responsibility of the user.

# Featured Products & Services

## Products and Services

Manufacturing quality erosion control products is our main focus. Our products are designed to meet a complex variety of erosion control and vegetation problems. For slope protection, channel lining, reclamation, turf reinforcement and specialized landscaping, Greenfix America has a product that provides the solutions. Optimum performance of all Greenfix America blankets can be expected when installed according to recommended specifications.

## Fiber Products

Our straw products contain California's highest quality straw, certified by the USDA to be free of Canadian Thistle and other noxious weeds. All straw blankets are made of high performance straw fiber with a longer fiber length that ensures a nutrient rich mulch. Coir (coconut fiber) fiber products contain 100 % high quality coconut fiber.

## Organic Net Products

The Greenfix America Organic Net blankets use the same fiber composition as our standard blankets with a natural reinforcement matrix in place of polypropylene netting. The bio-degradability of the blanket is an advantageous feature in ecologically sensitive areas. Additional features include, added water absorption, a woven net matrix that allows the strands to float independently of each other, reducing the risk of tenting and wildlife endangerment, making these blankets an environmentally friendly solution.

## Custom Manufactured Products

Greenfix America will design and manufacture a blanket to meet your specific project application. Our goal is to meet your unique challenges by providing effective solutions for different erosion and sediment control applications. We will maximize the dollars you spend by producing a blanket to meet your specification.

Greenfix America can provide independent laboratory testing for your custom manufactured products. Minimal charges apply depending upon the number of parameters tested. Please allow 3 to 4 days for analysis processing.

NEW

## Innovative Packaging

The Greenfix America 20 roll unit provides easier product shipping, handling, and storage. The unit can be handled easily with standard warehousing equipment in a variety of locations. The packages are durable and can be stored outdoors when covered with a Greenfix America bundle bag. Our specialized packaging style minimizes packaging waste.

## Quality Control Program

Prior to every production season, recurrent testing is performed on the entire product line. To ensure the minimum performance standards are being met, all products are tested annually for the following parameters ASTM D5261 Mass Per Unit Area, ASTM D5199 Thickness, ASTM D5035 Tensile and ASTM D5035 Elongation. This ensures quality standards are not affected by straw variations due to climate, growing, and harvest conditions.

Greenfix America's product quality standards are measured against advanced physical performance tolerances realized by natural environmental events. The quality assured erosion control products made available by Greenfix America set a standard that makes the conditional industry accepted standards environmentally nonconforming.

The performance qualification program accurately provides design performance values qualifying the selected materials for your project application. The design values are compiled from proven federally accepted large-scale laboratory tests intended to replicate actual field conditions, providing definitive engineering design values. Our product qualification program does not subscribe to Bench Scale material testing to interpret design values.

## Diverse TRM Products

Greenfix America offers a variety of TRM materials specifically configured to satisfy the many different approaches to slope and channel designing and marketing practices. Our TRM product development and material qualification program emphasizes the pre-vegetabled life cycle of a project application.

NEW

## Green Spec

Greenfix Erosion Control Blanket Specification C/D
Product Specifications (Word Processor Ready in CSI Format)
Physical Property Compliance Certificates
Installation Diagrams & Instructions
Test Data Tables
Product Comparison Tables
Photo Galleries
Product Selection Guidelines

## Online Services

Log on to greenfix.com for fast easy access to the following links.

- Place An Order
- Request A Quote
- Print Product Information
- Obtain Individual Product Certificates.
- Send us a message. Tell us what you need.

GREENFIX®
AMERICA

# Straw Wattle

***Definition:*** Slope Interruption Devices (SID) are manufactured from straw that is wrapped in tubular black plastic netting. They are approximately 8 inches (200 mm) in diameter by 20-25 feet (7-8 m) long. Rolls are placed and staked along the contour of newly constructed or disturbed slopes.

***Purpose:*** Slope Interruption Devices (SID) are intended to capture and keep sediment on the slopes. Straw wattles (SIDs) are useful to temporarily stabilize slopes by reducing soil creep and sheet and rill erosion until permanent vegetation can get established. Installed, **straw wattles shorten the slope length**, thereby interrupting the raveling and rilling processes, **and reduce the slope steepness.** They catch soil material that moves down the slope by the freeze/thaw processes. Organic matter and native seeds are trapped behind the wattles, which provide a stable medium for germination, logs trap fertile topsoil and retain moisture from rainfall, which aids in growth of tree seedlings planted along the upslope side of the wattles.

***Design Considerations:***
Sites appropriate for straw wattles are:

- Slopes susceptible to sheet and rill erosion;
- Slopes producing dry ravel;
- Slopes susceptible to freeze/thaw activity; or slopes difficult to vegetate because of soil movement. Straw logs are not intended for use in concentrated flow situations.

***Disadvantages:***

- Wattles only function for one or two seasons.
- If not installed properly with a sufficient trench, wattles may fail.
- Straw wattles may require maintenance to ensure that the stakes are holding and the wattles are still in contact with the soil. This is especially true on steep slopes in sandy soil.

***Advantages:***

- Straw wattles are a relatively low-cost solution to sheet and rill erosion problems.
- They can replace silt fences or straw bales on steep slopes.
- Rolls are a short-term solution to help establish native vegetation.
- Rolls store moisture for vegetation planted immediately upslope.
- Plastic netting will eventually photodegrade, eliminating the need for retrieval of materials after the straw has broken down.
- Straw becomes incorporated into the soil with time, adding organic material to the soil and retaining mois ture for vegetation.

Straw wattles will last an average of one to two years. This is an important factor when planning the optimum length of time the slope will need mechanical stabilization.

Straw wattles can be staked with willow stakes if site conditions warrant and the moisture retained by the straw log will encourage willow establishment.

***Construction Specifications:***
***Consult Your Local Qualified Distributor or Engineer***
***(Construction Recommendation Available Upon Request)***

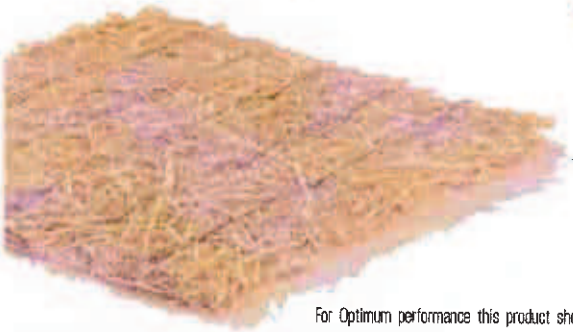
***Inspection and Maintenance:***
***See Complete Product Specifications***

GREENFIX AMERICA

# Products

## Temporary Slope Protection

### Straw - Photodegradable



TOP NET
Light Photodegradable

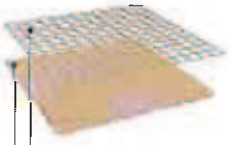
FIBER LAYER
100% California Straw Fiber

For Optimum performance this product should be installed with net up.

### WS05 Single Net Straw

| Fiber | Straw |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.50 / .271 |
| Weight per Blanket (Pounds/Kilograms) | 30 / 13.6 |
| Functional Longevity (Months) | 10 |
| Top Netting Type (Photodegradable) | Light |
| Bottom Netting Type | N/A |
| Product Color Code | |

### Straw - Biodegradable



TOP NET
Natural Biodegradable

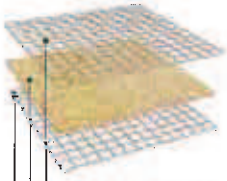
FIBER LAYER
100% California Straw Fiber

For Optimum performance this product should be installed with net up.

### WS05B Single Organic Net Straw

| Fiber | Straw |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.50 / .271 |
| Weight per Blanket (Pounds/Kilograms) | 30 / 13.6 |
| Functional Longevity (Months) | 10 |
| Top Netting Type (Biodegradable) | Natural |
| Bottom Netting Type | N/A |
| Product Color Code | |

### Straw - Photodegradable



TOP NET
Light Photodegradable

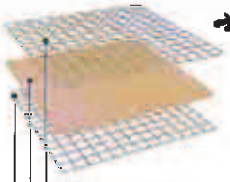
FIBER LAYER
100% California Straw Fiber

BOTTOM NET
Medium Photodegradable

### WS072 Double Net Straw

| Fiber | Straw |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.70 / .379 |
| Weight per Blanket (Pounds/Kilograms) | 42 / 19.0 |
| Functional Longevity (Months) | 10-12 |
| Top Netting Type (Photodegradable) | Light |
| Bottom Netting Type (Photodegradable) | Medium |
| Product Color Code | |

### Straw - Biodegradable



TOP NET
Natural Biodegradable

FIBER LAYER
100% California Straw Fiber

BOTTOM NET
Natural Biodegradable

### * WS072B Double Organic Net Straw

| Fiber | Straw |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.70 / .379 |
| Weight per Blanket (Pounds/Kilograms) | 42 / 19.0 |
| Functional Longevity (Months) | 10-12 |
| Top Netting Type (Biodegradable) | Natural |
| Bottom Netting Type (Biodegradable) | Natural |
| Product Color Code | |

Type 2D ECM

## Supplement To General Installation Guidelines/ Slopes And Channels

***Subgrade / Slopes & Channels:*** On slopes and channels, the site must be shaped to the design specifications (Slope gradient, Density of soil & etc.) The site must be groomed to be free of soil clods, clumps, rocks or equipment imprints of any kind that would prevent the blanket from lying flush against the surface contour.

***Seeding / Slopes & Channels:*** For non soil filled applications on slopes and channels, hydro-seed, board cast or drill seed over prepared soil before blanket is deployed. Make sure to hydro-mulch after seeding and before the blanket is installed to ensure the seed is in direct contact with the soil. Seed mixes with adequate pure live seed ratios must be used to ensure proper germination ratios and successful vegetation establishment. Consult your local distributor or seed supplier to obtain a proper seed mix.

***Anchor Trench & Check Slots / Slopes & Channels:*** Anchor trenches are required to securely fasten the blanket to the subgrade surface. Anchor trenches and intermediate check slots are typically 6-9 inches wide and 6-9 inches deep. The blanket is installed in the trench and fastened to the bottom with staples spaced 1-3 ft. apart. The anchor trenches and checks slots are then back filled and compacted in such a manner not to damage the blanket. (See Slope & Channel Isometric View)

***Anchor Trench / Slopes:*** Anchor trenches should be installed at least 1 ft. beyond the crest of the slope. (See Longitudinal Anchor Trench Fig. 2)

***Anchor Trench / Channels:*** In a channel anchor trenches are installed at the beginning of the channel. (See Initial Channel Anchor Trench Fig. 1 & Longitudinal Anchor Trench Fig. 2)

***Check Slots / Slopes:*** For maximum performance of your product, an intermediate check slot may be required on long slopes that exceed one roll length. Intermediate check slots should be spaced approximately 20 – 60 ft. intervals down the slope depending on the blanket type, slope length and soil conditions. Consult your local distributor or blanket manufacturer directly to confirm the check slot installation procedure. (See Intermediate Check Slot Fig. 3)

***Check Slots / Channels:*** In a channel, check slots are spaced approximately 25 – 60 ft. intervals down stream depending on flow conditions, channel gradient and time to vegetate. (See Intermediate Check Slot Fig. 3 & Cannel Isometric View) Field Joining And Anchoring: The blanket is rolled down the slope or channel loosely to maintain contact with the soil at all times. Side to side overlap between rolls are 3-4 inches minimum and anchored on 2-3 ft. intervals minimum. End to end splice overlap between rolls are 1-3 ft. minimum and anchored with two rows of staples on 1 ft. intervals minimum. Overlaps are shingled in the direction of flow.

Staple patterns will vary depending on application, soil type, slope or channel gradient and etc. (See Staple Pattern Guidelines) A rule of thumb for estimating the amount of staples required for a project is as follows:

Steep Slopes / 1:1 and greater . . . . . .2-4 staples per sq. yd.

High Flow Channel . . . . . .3-4 staples per sq. yd.

Low Flow Channel . . . . . .2-3 staples per sq. yd.

Install additional staples as required to ensure the blanket is always in contact with the soil, regardless of suggested staple patterns.

***Anchoring Devices:*** Use a 6 inch x 1 inch 11 gauge minimum metal staple in heavy compacted soil. In loose soil conditions use a 8 inch x 1 inch 11 gauge minimum metal staple. Other approved anchoring devices in loose soil conditions are as follows:

12 inch x 1.5 inch metal staples.

18 inch pins with 1.5 inch diameter washer.

12-30 inch J-Shape pins made from bent 1/4 inch wire or rebar.

Install staples or pins so that the top of the anchor is flush with the soil surface.

***Special Installation & Conditions:*** The installation guidelines are recommendations only. You should always confirm the installation procedure with your local distributor or blanket manufacturer to ensure maximum performance of the product. All design specifications prepared by a qualified design consultant or engineer supersede these recommended guidelines.

Product selection software, which some manufactures claim to be design software, use versions of the universal soil loss equation, national rainfall and soil survey charts to fabricate a formula that will make a mathematical blanket type selection.

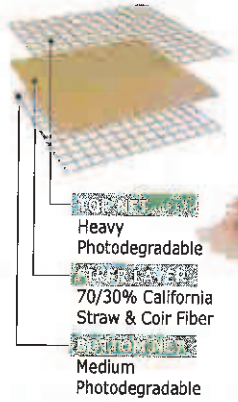
This approach to computerize product selection should never be used to select a blanket type for a specific project application because it circumvents the base line data collection process that all project specifiers regardless of scope are required to do if any hope of success is expected. This type of evaluation does not allow the specifiers to use site specific project data that is directly revelant to the application design and product performance.

The USLE is designed to calculate total tons of potential soil erosion from a site using historical regional data as factors in the equation. These assumptions do not and cannot quantify or guarantee product performance. Design software may be useful in channel design to determine or limit the potential shear stress forces the channel lining materials are subjected to.

## CFS072R Double Net Straw Coconut

*Straw/Coir - Photodegradable*

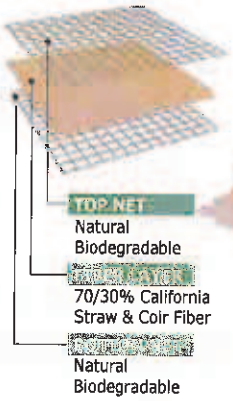
| Fiber | Straw / Coir |
|---|---|
| Fiber Content | 70%-30% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.70 / .379 |
| Weight per Blanket (Pounds/Kilograms) | 42 / 19.0 |
| Functional Longevity (Months) | 18-24 |
| Top Netting Type (Photodegradable) | Heavy |
| Bottom Netting Type (Photodegradable) | Medium |
| Product Color Code | |



## CFS072B Double Organic Net Straw Coconut

*Straw/Coir - Biodegradable*

| Fiber | Straw / Coir |
|---|---|
| Fiber Content | 70%-30% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.70 / .379 |
| Weight per Blanket (Pounds/Kilograms) | 42 / 19.0 |
| Functional Longevity (Months) | 18 |
| Top Netting Type (Biodegradable) | Natural |
| Bottom Netting Type (Biodegradable) | Natural |
| Product Color Code | |

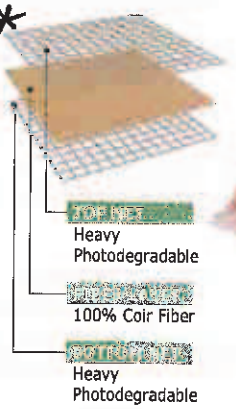


Type 3B ECM

## CF072RR Double Net Coconut *

*Coir - Photodegradable*

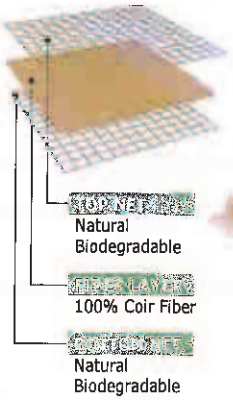
| Fiber | Coir |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.70 / .379 |
| Weight per Blanket (Pounds/Kilograms) | 42 / 19.0 |
| Functional Longevity (Months) | 36 |
| Top Netting Type (Photodegradable) | Heavy |
| Bottom Netting Type (Photodegradable) | Heavy |
| Product Color Code | |

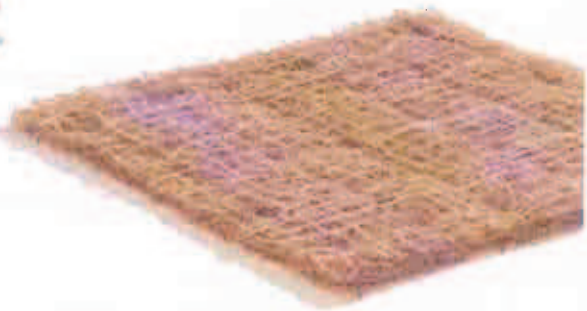


## CF072B Double Organic Net Coconut

*Coir - Biodegradable*

| Fiber | Coir |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.70 / .379 |
| Weight per Blanket (Pounds/Kilograms) | 42 / 19.0 |
| Functional Longevity (Months) | 24 |
| Top Netting Type (Biodegradable) | Natural |
| Bottom Netting Type (Biodegradable) | Natural |
| Product Color Code | |

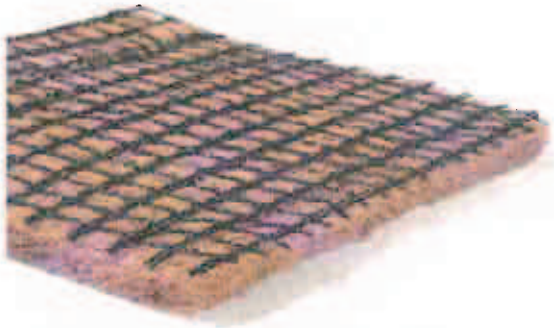


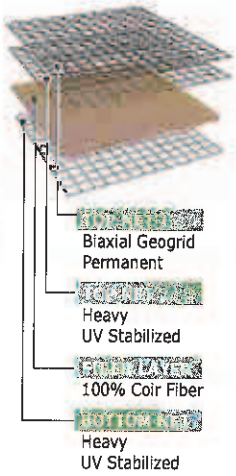



# Products

## Permanent Turf Reinforcement Mats / Slopes and Channels

### Coir - Permanent





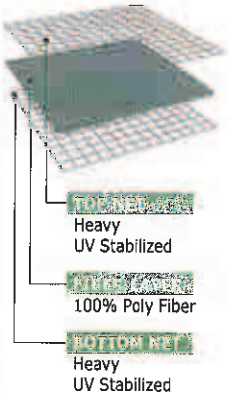

### CFG2000 Geogrid Reinforced Coconut (Patent Pending)

| Fiber | Coir |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 7.5 / 2.3 |
| Length (Feet/Meters) | 72.0 / 21.9 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | .95 / .514 |
| Weight per Blanket (Pounds/Kilograms) | 57 / 25.9 |
| Functional Longevity (Months) | 36+ |
| Top Net Type 1 (Permanent) | Biaxial Geogrid |
| Type 2 (UV Stabilized Polypropylene) | Heavy |
| Bottom Netting Type (UV Stabilized Polypropylene) | Heavy |

Product Color Code

Applications:
Vegetation Establishment With Composite TRM Construction
Green Engineering Embankment Reinforcement
High Velocity / High Shear Channel Designing
Steep Slope Stabilization

### Synthetic - Permanent



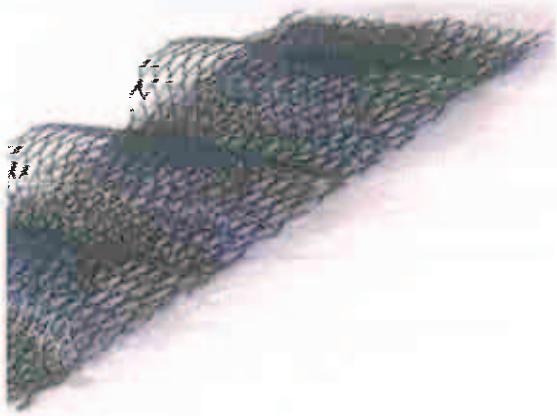

### GFP-12 Double Net Synthetic Fiber

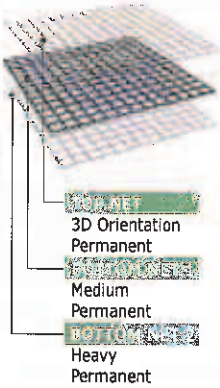
| Fiber | Polypropylene |
|---|---|
| Fiber Content | 100% |
| Width (Feet/Meters) | 8 / 2.4 |
| Length (Feet/Meters) | 67.5 / 20.5 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.75 / .406 |
| Weight per Blanket (Pounds/Kilograms) | 45 / 20.4 |
| Functional Longevity (Months) | Permanent |
| Top Netting Type (UV Stabilized Polypropylene) | Heavy |
| Bottom Netting Type (UV Stabilized Polypropylene) | Heavy |

Product Color Code

Applications:
Permanent Erosion Control of Slopes and Channels
Erosion Protection of Poorly Vegetated Surfaces
Turf Reinforcement of Properly Vegetated Surfaces

### 3D Synthetic - Permanent






### Trinter 3D Permanent Turf Reinforcement Mat

| Fiber | N/A |
|---|---|
| Fiber Content | Open |
| Width (Feet/Meters) | 6.56 / 2.0 |
| Length (Feet/Meters) | 83.0 / 25.3 |
| Area (Square Yards / Square Meters) | 60 / 50 |
| Weight (Lbs. Sq. Yd. - Kg/Sq. Meters) | 0.56 / .340 |
| Weight per Blanket (Pounds/Kilograms) | 40 / 18 |
| Functional Longevity (Months) | Permanent |
| Top Net Type (3D Orientation / Permanent) | Heavy |
| Bottom Net Type 1 (UV Stabilized Permanent) | Medium |
| Type 2 (UV Stabilized Permanent) | Heavy |

Product Color Code

Applications:
90% of the Matrix is Open and Available for Soil Filling and Root Entanglement
Hydraulic BFM Containment Structure
Increase Effectiveness of Hydraulically Applied Materials
Rapid Turf Reinforcement With Hydro-seeding

## Recommended Installation Guidelines

***Subgrade*** - The first installation step is to make sure that the subgrade is properly prepared. Once the subgrade has been verified to be properly graded and compacted and generally free of ruts and projecting stones or clods, the blanket can be deployed. Generally, normal construction equipment should not cause significant rutting of the subgrade.

***Other Layers*** - In some systems, another material such as mulch may underlie the blanket and therefore be placed first. When situations require the blanket to be laid on top of another material, care must be taken to prevent disruption of or damage to the underlying materials. Never use normal construction equipment directly on top of blanket.

***Seeding*** - In temporary, degradable systems, seed is generally spread on or drilled or sprigged into the subgrade prior to unrolling of the blanket. Many long-term, nondegradable systems are unrolled, and filled with soil prior to seeding.

***Positioning and Anchoring*** - In all cases, each blanket should be unrolled as close as possible to its intended final position to minimize the need for dragging which can dislocate underlying materials or dig up or disturb the prepared subgrade and/or seeding. Staking, pinning or stapling blankets to secure their position is commonly done with a frequency and at the relative locations required to assure stability on the terrain in question.

***Wind*** - Large panels of blankets can be lifted up by gusts of wind if not properly secured. Deployed materials are most vulnerable prior to anchoring. Wind displacement can cause damage such as tearing or less obvious, but equally as problematic, damage such as loss of fibers. Identified damage should be patched. Liberal use of temporary weights such as dirt mounds or sandbags is the most common strategy to avoid wind pick-up.

## Field Joining and Anchoring

Proper installation of blankets is critical. Blanket panels are joined side to side and end to end by overlapping or "shingling" in the direction of flow. Overlaps are typically secured by staking, pinning, or stapling at regular spacings along the overlap. Longitudinal overlaps must be a minimum of 3" along the overlap length. Blanket ends may be spliced by overlapping 1' (in the direction of water flow) with the upstream blanket placed on top of the downstream blanket. This overlap should be anchored at 1' spacing across the width of the blanket.

Typically blankets are anchored with 11 ga. U-shaped staples, 6" or 8" long depending upon the looseness or compaction of the soil. Proper anchoring of rolled blankets also includes the following practices:

- Terminal trenches (typically 6 inches wide by 12 inches deep) are made at the top and bottom (crest and toe) of all covered slopes and at the end of all lined channels.

- Intermediate trenches, or "check slots" (typically 6 inches wide by 6 inches deep) or two closely spaced rows of anchors may be used transverse to flows at intermittent points down a slope or along a channel to prevent continuous flows beneath the blankets.

- "Patterning" staking, pinning, or stapling of positioned blankets accomplishes uniform anchoring. The pattern depends on the steepness of the slope or channel as shown in staple guidelines.

### Penetrations

It is important that at the point of all penetrations through a blanket additional anchorage be provided. The most common penetration involves a pipe or manhole around which the blanket can be easily cut to fit closely and subsequently anchored. Penetrations and other structure interferences are notoriously prone to concentrated erosion. Therefore, special attention to detail is necessary when any of these features are encountered.

### Repairs

If a repair is required because the blanket has been accidentally damaged, a patch of the same base blanket type should be cut to fit over and sufficiently beyond the damaged area to permit joining to or anchoring through the parent blanket.

### Backfilling

Blankets which are installed prior to seeding must be subsequently seeded and, when directed, backfilled with soil. These blankets must be of the blanket type, meaning they must have an open structure to facilitate soil filling. Typically, once seeded, same day backfilling is preferred. Depending on the system design, the cover soil may be a special topsoil or simply general backfill. In either case, consideration must be made for the proper placement of the soil layer to completely fill the blanket without overfilling (which may prevent germination) or causing construction damage.

For Installation Assistance:

GREENFIX AMERICA

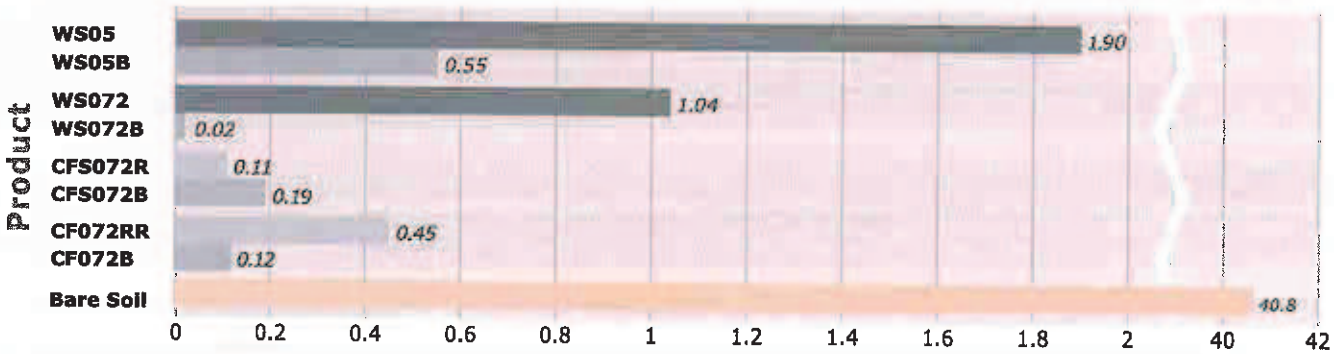
800-929-2184 (760) 348-7600
Fax (760) 348-3097
www.greenfix.com

## PROPERTIES

| Parameter/Method | WS05 | WS05B | WS072 | WS072B | CFS072R | CFS072B | CF072RR | CF072B | CFG2000 | GFP12 | TRINTER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Netting Size (inches sq.) Top | 0.625 | .50 +/- | 0.625 | .50 +/- | 0.625 | .50 +/- | 0.625 | .50 +/- | .50 X .60 | 0.625 | 0.30 |
| Bottom | n/a | n/a | 0.625 | .50 +/- | 0.625 | .50 +/- | 0.625 | .50 +/- | 0.625 | 0.625 | 0.30 |
| Net Weight (lbs./1000 sq. ft.) Top | 1.6 | 9.3 | 1.6 | 9.3 | 3.0 | 9.3 | 3.0 | 9.3 | 31.0 | 3.0 | 22.5 |
| Bottom | n/a | 9.3 | 1.6 | 9.3 | 1.6 | 9.3 | 3.0 | 9.3 | 3.0 | 3.0 | 22.5 |
| Slope Recommendation (derived from lab testing and field applications | 2.5:1or< | 2.5:1or< | 2:1or< | 2:1or< | 1:1or< | 1:1or< | 1:1or> & Channel | 1:1or> & Channel | 1:1or> & Channel | 1:1or> & Channel | 1:1or> & Channel |
| 1 ASTM D5199 (mils) Min. | 350 | 350 | 430 | 430 | 380 | 430 | 300 | 300 | 320 | 280 | 500 |
| Thickness (inches) Min. | 0.35 | 0.35 | 0.43 | 0.43 | 0.38 | 0.43 | 0.30 | 0.30 | 0.32 | 0.28 | 0.50 |
| 1 ASTM 5261 (Avg./lbs./ft.²) | 0.15 | 0.15 | 0.14 | 0.14 | 0.09 | 0.13 | 0.13 | 0.09 | 0.17 | 0.09 | 0.06 |
| Mass per Unit Area (Avg./grams/m²) | 735 | 722 | 690 | 690 | 476 | 676 | 662 | 440 | 833 | 690 | 340 |
| 1 ASTM D5035 (Avg./lbs./ft.) MD | 73.2 | 303.6 | 140.4 | 450 | 206.4 | 496.8 | 266.4 | 560.4 | 1770 | 503.2 | 314.4 |
| Tensile Strength @ Peak TD | 60.0 | 339.6 | 126 | 555.6 | 183.6 | 505.2 | 234 | 548.4 | 2071 | 483.4 | 242.4 |
| 1 ASTM D5035 (Avg. %) MD | 10.9 | 6.8 | 12.4 | 3.6 | 13.4 | 2.1 | 13.4 | 2.2 | 17.1 | 25 | 27 |
| Elongation @ Peak TD | 8.7 | 2.8 | 9.3 | 2.7 | 9.6 | 2.2 | 11.1 | 2.5 | 18.1 | 24 | 20 |
| 2 Roughness Coefficient Mannings "n" | 0.0165 | 0.0212 | 0.0174 | 0.0173 | 0.0177 | 0.0180 | 0.0159 | 0.0148 | 0.026 | 0.024 | 0.025 |
| 3 Light Penetration ECTC (Avg. %) | 35 | - | 11 | - | 19 | 11 | 8 | - | 8 | 5 | * |
| 3 Swell - ECTC (Avg. %) | 70 | - | 6 | - | 25 | 19 | 5 | - | 5 | - | - |
| 1 ASTM D1117 (Avg. %) Water Absorption | 200 | - | 365 | - | 285 | 81 | 22 | - | 22 | - | - |
| 3 ASTM D4491 Permitivity (s-1) | 2.0 | - | 4.7 | - | 6.1 | 1.8 | 5.8 | - | 5.8 | - | - |
| Permeability (cm/s) | 1.8 | - | 2.5 | - | 2.6 | 1.9 | 3.6 | - | 3.6 | - | - |
| 4 Design (C) Factor ASTM D6549 | 0.046 | 0.013 | 0.025 | 0.005 | 0.003 | 0.005 | 0.011 | 0.003 | 0.011 | 0.16 | * |
| 5 Relative (C) Factor - SDSU 10 Yr. Storm Event (ASTM D6549) | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.001 | 0.001 | 0.001 | - | * |
| 4 Max. Permissible Shear (lbs/ft2) Unvegetated Direct Shear Value | N/A | N/A | N/A | N/A | 3.0 | 2.5 | 4.0 | 3.0 | 4.5 | 3.0 | 6.5 |

1. Precision Geosynthetic Laboratories 2. Texas Transportation Institute 3. TRI Environmental, Inc. 4. Utah State Water Reasearch Laboratory 5. San Diego State University Soil Erosion Research Laboratory
N/A - Shear stress is a hydraulicly applied force not an index property to be used for any type of conformance evaluation of straw fiber blankets.
* Parameter value will vary depending on integrated application (Soil filling, Hydro Mulching, Vegetated, Non-vegetated and Etc.).

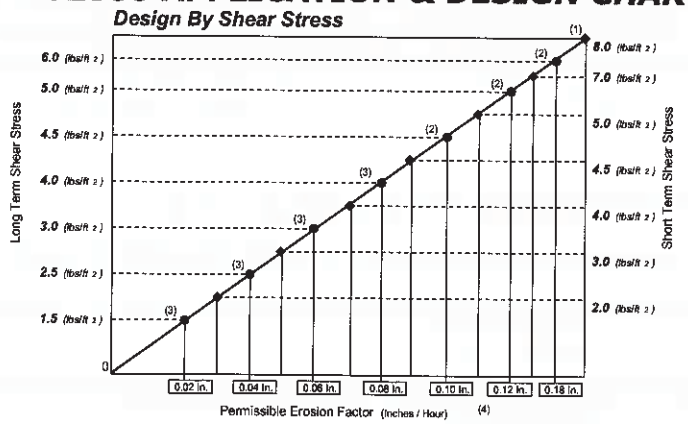
## SLOPE SOIL EROSION RATE



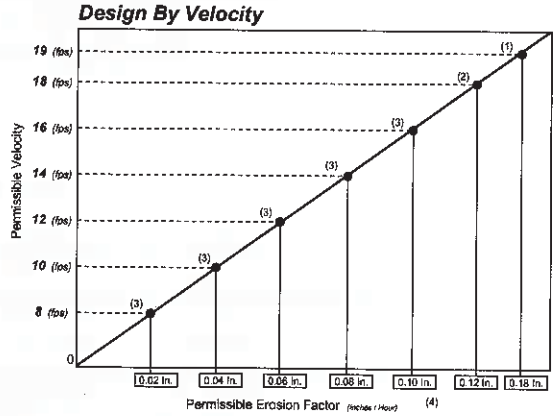

**SOIL EROSION RATE (lb./hr.)** **Test Condition: Slope=**2:1 / 2.5:1 **Soil:** Sandy Loam **Rainfall Rate:** 5 in./hr.

## CFG2000 APPLICATION & DESIGN CHART *(Patent Pending)*

### Design By Shear Stress




### Design By Velocity




***Test Conditions***
2000-2001 Independent University Research Laboratory Testing.
Soil Type - Sandy Loam
High Velocity Flow - Maximum flume velocity & shear
(1) Max Flume velocity & shear (19.5 fps) - Duration < 2 Hrs.
(2) Long duration test 50 hours minimum - Velocity & shear constant at 18 fps including 2 hour peak flow (19.5 fps.)
(3) Third duration test - Velocity & shear increasing every 30 minutes up to 18 fps.
(4) Erosion Factors based on direct measurment of soil loss during 50 hour test - Unvegetated slate.

***Legend***
Long Term
Short Term

# Material and Performance Specification Sheet

North American Green
14649 Highway 41 North
Evansville, IN 47725
800-772-2040
FAX: 812-867-0247
www.nagreen.com

A tensar Company

# **C125** Erosion Control Blanket

The long-term double net erosion control blanket shall be a machine-produced mat of 100% coconut fiber with a functional longevity of up to 36 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a heavyweight polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 (1.59 x 1.59 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread.

The C125 shall meet requirements established by the Erosion Control Technology Council (ECTC) Specification and the US Department of Transportation, Federal Highway Administration's (FHWA) *Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 Section 713.17 as a type 4 Long-term Erosion Control Blanket.*

The C125 is also available with the DOT System™, which consists of installation staple patterns clearly marked on the erosion control blanket with environmentally safe paint. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

| Material Content | | |
|---|---|---|
| **Matrix** | 100% Coconut Fiber | 0.5 lbs/yd$^2$ (0.27 kg/m$^2$) |
| **Nettings** | Both sides – Heavyweight UV stabilized | 3.0 lb/1000 ft$^2$ ( 1.47 kg/100 m$^2$) |
| **Thread** | 100% Black Polypropylene | |

**C125 is available in the following standard roll sizes:**

| | | |
|---|---|---|
| **Width** | 6.67 ft (2.03 m) | 16 ft (4.87 m) |
| **Length** | 108 ft (32.92 m) | 108 ft (32.92 m) |
| **Weight ± 10%** | 44 lbs (19.95 kg) | 105.6 lbs (47.9 kg) |
| **Area** | 80.0 yd$^2$ (66.9 m$^2$) | 192 yd$^2$ (165.5 m$^2$) |

**Index Value Properties:**

| Property | Test Method | Typical |
|---|---|---|
| Thickness | ASTM D6525 | 0.31 in (7.87 mm) |
| Resiliency | ECTC Guidelines | 82% |
| Water Absorbency | ASTM D1117 | 220% |
| Mass/Unit Area | ASTM 6475 | 8.00 oz/yd$^2$ (271 g/m$^2$) |
| Swell | ECTC Guidelines | 13% |
| Smolder Resistance | ECTC Guidelines | Yes |
| Stiffness | ASTM D1388 | 0.75 oz-in |
| Light Penetration | ECTC Guidelines | 6.6% |
| Tensile Strength –MD | ASTM D6818 | 294 lbs/ft (4.36 kN/m) |
| Elongation – MD | ASTM D6818 | 21.3% |
| Tensile Strength – TD | ASTM D6818 | 205.2 lbs/ft (3.04 kN/m) |
| Elongation – TD | ASTM D6818 | 28.4% |

**Bench Scale Testing* (NTPEP):**

| Test Method | Parameters | Results |
|---|---|---|
| ECTC Method 2 Rainfall | 50 mm (2 in)/hr for 30 min | SLR** = 14.93 |
| | 100mm (4 in)/hr for 30 min | SLR** = 14.97 |
| | 150 mm (6 in)/hr for 30 min | SLR** = 15.00 |
| ECTC Method 3 Shear Resistance | **Shear at 0.50 inch soil loss** | **2.68 lbs/ft$^2$** |
| ECTC Method 4 Germination | Top Soil, Fescue, 21 day incubation | 477% improvement of biomass |

* Bench Scale tests should not be used for design purposes

** Soil Loss Ratio = Soil loss with Bare Soil/Soil Loss with RECP (soil loss is based on regression analysis)

**Performance Design Values:**

| Maximum Permissible Shear Stress | |
|---|---|
| Unvegetated Shear Stress | 2.25 lbs/ft$^2$ (108 Pa) |
| Unvegetated Velocity | 10.00 ft/s (3.05 m/s) |

| Slope Design Data: C Factors | | | |
|---|---|---|---|
| | Slope Gradients (S) | | |
| Slope Length (L) | ≤ 3:1 | 3:1 – 2:1 | ≥ 2:1 |
| ≤ 20 ft (6 m) | 0.001 | 0.029 | 0.082 |
| 20-50 ft | 0.036 | 0.060 | 0.096 |
| ≥ 50 ft (15.2 m) | 0.070 | 0.090 | 0.110 |

| Roughness Coefficients- Unveg. | |
|---|---|
| Flow Depth | Manning's n |
| ≤ 0.50 ft (0.15 m) | 0.022 |
| 0.50 – 2.0 ft | 0.022 – 0.014 |
| ≥ 2.0 ft (0.60 m) | 0.014 |

**Product Participant of:** QDOR Performance Verified

Updated 3/09

# Material and Performance Specification Sheet

North American Green
14649 Highway 41 North
Evansville, IN 47725
800-772-2040
FAX: 812-867-0247
www.nagreen.com

A tensar Company

# **SC150** Erosion Control Blanket

The extended-term double net erosion control blanket shall be a machine-produced mat of 70% agricultural straw and 30% coconut fiber with a functional longevity of up to 24 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw and coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a heavyweight photodegradable polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 (1.59 x 1.59 cm) mesh, and on the bottom side with a lightweight photodegradable polypropylene netting with an approximate 0.50 x 0.50 in (1.27 x 1.27 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread.

The SC150 shall meet requirements established by the Erosion Control Technology Council (ECTC) Specification and the US Department of Transportation, Federal Highway Administration's (FHWA) *Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 Section 713.17 as a type 3.B Extended-term Erosion Control Blanket.*

The SC150 is also available with the DOT System™, which consists of installation staple patterns clearly marked on the erosion control blanket with environmentally safe paint. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

| Material Content | | |
|---|---|---|
| **Matrix** | 70% Straw Fiber | 0.35 lbs/yd$^2$ (0.19 kg/m$^2$) |
| | 30% Coconut Fiber | 0.15 lbs/yd$^2$ (0.08 kg/m$^2$) |
| **Nettings** | Top – Heavyweight photodegradable with UV additives | 3.0 lb/1000 ft$^2$ ( 1.47 kg/100 m$^2$) |
| | Bottom – Lightweight Photodegradable | 1.5 lb/1000 ft$^2$ ( 0.73 kg/100 m$^2$) |
| **Thread** | Degradable | |

**SC150 is available in the following standard roll sizes:**

| | | |
|---|---|---|
| **Width** | 6.67 ft (2.03 m) | 16 ft (4.87 m) |
| **Length** | 108 ft (32.92 m) | 108 ft (32.92 m) |
| **Weight ± 10%** | 44 lbs (19.95 kg) | 105.6 lbs (47.9 kg) |
| **Area** | 80.0 yd$^2$ (66.9 m$^2$) | 192 yd$^2$ (165.5 m$^2$) |

**Index Value Properties:**

| Property | Test Method | Typical |
|---|---|---|
| Thickness | ASTM D6525 | 0.39 in (9.91 mm) |
| Resiliency | ECTC Guidelines | 75% |
| Water Absorbency | ASTM D1117 | 285% |
| Mass/Unit Area | ASTM 6475 | 11.44 oz/yd$^2$ (388 g/m$^2$) |
| Swell | ECTC Guidelines | 30% |
| Smolder Resistance | ECTC Guidelines | Yes |
| Stiffness | ASTM D1388 | 1.11 oz-in |
| Light Penetration | ECTC Guidelines | 8.7% |
| Tensile Strength –MD | ASTM D6818 | 146.6 lbs/ft (2.17 kN/m) |
| Elongation – MD | ASTM D6818 | 26.9% |
| Tensile Strength – TD | ASTM D6818 | 147.6 lbs/ft (2.19 kN/m) |
| Elongation – TD | ASTM D6818 | 25.2% |

**Bench Scale Testing* (NTPEP):**

| Test Method | Parameters | Results |
|---|---|---|
| ECTC Method 2 Rainfall | 50 mm (2 in)/hr for 30 min | SLR** = 5.47 |
| | 100mm (4 in)/hr for 30 min | SLR** = 5.67 |
| | 150 mm (6 in)/hr for 30 min | SLR** = 5.88 |
| ECTC Method 3 Shear Resistance | **Shear at 0.50 inch soil loss** | **2.72 lbs/ft$^2$** |
| ECTC Method 4 Germination | Top Soil, Fescue, 21 day incubation | 538% improvement of biomass |

* Bench Scale tests should not be used for design purposes

** Soil Loss Ratio = Soil loss with Bare Soil/Soil Loss with RECP (soil loss is based on regression analysis)

**Performance Design Values:**

| Maximum Permissible Shear Stress | |
|---|---|
| Unvegetated Shear Stress | 2.00 lbs/ft$^2$ (96 Pa) |
| Unvegetated Velocity | 8.00 ft/s (2.44 m/s) |

| Slope Design Data: C Factors | | | |
|---|---|---|---|
| | Slope Gradients (S) | | |
| Slope Length (L) | ≤ 3:1 | 3:1 – 2:1 | ≥ 2:1 |
| ≤ 20 ft (6 m) | 0.001 | 0.048 | 0.100 |
| 20-50 ft | 0.051 | 0.079 | 0.145 |
| ≥ 50 ft (15.2 m) | 0.10 | 0.110 | 0.190 |

| Roughness Coefficients- Unveg. | |
|---|---|
| Flow Depth | Manning's n |
| ≤ 0.50 ft (0.15 m) | 0.050 |
| 0.50 – 2.0 ft | 0.050 – 0.018 |
| ≥ 2.0 ft (0.60 m) | 0.018 |

**Product Participant of:** QDOR PERFORMANCE VERIFIED

Updated 3/09

Dan Bailey Trucking LLC
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name DELMAR McDONALD
Trucking Company DAN BAILEY
Job Address GEORGETOWN CANYON
Job Number
Material FILTER ROCK / PHOSPHATE

Trk/Trl # 47-T13 Ticket # 5623
Date 8-6-10

Ending Mileage
Starting Mileage 31060
(=) Total Mileage

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
~~Single Belly~~
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | FILTER TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:11 | 6:35 | | 7:30 | 7:35 | 23.61 |
| 2 | 9:06 | 9:35 | | 10:33 | 10:35 | 23.42 |
| 3 | 11:54 | 12:29 | | 1:20 | 1:23 | 23.66 |
| 4 | | | | | | 70.69 |
| 5 | | | | | | |
| 6 | | | | | | ok |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | PHOS TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 7:40 | 7:44 | | 8:34 | 8:41 | 24.53 |
| 17 | 10:42 | 10:45 | | 11:30 | 11:33 | 23.93 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads 3 ROCK
Total Tons 70.69 ROCK / ok

Start Haul 5:30 AM End Haul
Total Hours Driver's Signature

Comments PHOSPHATE GEORGETOWN CANYON TO SODA SPRINGS
FILTER ROCK TWINS PIT TO GEORGETOWN CANYON

Start Haul End Haul Time
Total Hours Supervisor's Signature

...be filled out completely and accurately or payment may be delayed or contested.
...ay after completion of work.
...ervisor: Pink - Dan Bailey Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name Spackman Ent / Mark Atkinson Trk/Trl # 32-6T Ticket # 5408

Trucking Company DBT Date 8-5-10

Job Address Soda Springs Phosphate

Job Number

Material Phosphate / Filter Rock

Ending Mileage

Starting Mileage

(=) Total Mileage

Truck Type: (Circle One) 10 wheeler, 12 wheeler, 14 wheeler, Truck & Pup, Semi End, Single Belly, Double Belly, Side Dump, Other

Phosphate

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 759 | 802 | | 842 | 847 | 27.53 |
| 2 | 1041 | 1050 | | 1149 | 1153 | 26.75 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Filter

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 605 | 656 | | 753 | 756 | 26.60 |
| 17 | 907 | 948 | | 1039 | 1040 | 26.92 |
| 18 | | | | | | |
| 19 | 1225 | 1222 | | 122 | 125 | ~~26.20~~ |
| 20 | | | | | | |
| 21 | | | | | | ~~69.78~~ |
| 22 | | | | | | 79.78 |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads

Total Tons

Start Haul 0530 AM End Haul

Total Hours Driver's Signature

Comments Filter Rock From Jones Pit to Georgetown Canyon Summit
Phosphate From Georgetown Canyon Summit to Soda Springs Phosphate

Start Haul 1:30 AM End Haul Time

Total Hours Supervisor's Signature

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name _____ Trk/Trl # _____ Ticket # 5613

Trucking Company _____ Date _____

Job Address _____

Job Number _____ Ending Mileage _____

Material _____ Starting Mileage _____

(=) Total Mileage _____

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other _____

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2 | [illegible] | [illegible] | — | [illegible] | [illegible] | [illegible] |
| 3 | [illegible] | [illegible] | — | [illegible] | [illegible] | [illegible] |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 17 | [illegible] | [illegible] | | [illegible] | [illegible] | [illegible] |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads [illegible]

Total Tons [illegible]

Start Haul _____ End Haul _____

Total Hours _____ Driver's Signature _____

Comments _____

Start Haul _____ End Haul _____ Time _____

Total Hours _____ Supervisor's Signature _____

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

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SODA SPRINGS, ID

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Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: LYNN W. GAULT
Trk/Trl #: 54-79
Ticket #: 4702
Trucking Company: DAN BAILEY
Date: 8-6-10
Job Address: Soda Springs Phosphate
DBT's Job Number:
Material: Rock / Phosphate
Ending Mileage:
Starting Mileage: 137045
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other:

Phos.

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:36 | 7:49 | | 8:27 | 8:35 | 24.19 |
| 2 | 10:32 | 10:46 | | 11:25 | 11:27 | 25.41 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Rock

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 6:06 | 6:43 | | 7:36 | 7:37 | 23.48 |
| 17 | 9:06 | 9:41 | | 10:30 | 10:31 | 23.5 |
| 18 | 11:50 | 12:21 | | 1:12 | 1:13 | 23.32 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

| | Phos. | Rock |
|---|---|---|
| Total Loads | | 3 |
| Total Tons | | 70.25 |

Start Haul: 5:30 A.M.
End Haul:
Total Hours:
Driver's Signature: Lynn W. Gault

Comments: ~~[illegible]~~ PIT TO GEORGETOWN CANYON — GEORGETOWN CANYON TO Soda Springs Phosphate

Start Haul:
End Haul:
Time:
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
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Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Phil Simpson
Trucking Company: DBT
Job Address: So Da Springs
Job Number:
Material: Phosphate / Roadbase

Trk/Trl #: 53-T39
Ticket #: 5536
Date: 8-6-10

Ending Mileage:
Starting Mileage: 556509
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other:

phosphate

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 729 | 740 | | 820 | 827 | 26.82 |
| 2 | 1026 | 1026 | | 1120 | 1125 | 27.57 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Filler Rock

~~Roadbase~~

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 530 | 622 | | 715 | 729 | 26.41 |
| 17 | 905 | 925 | | 1025 | 1026 | 26.35 |
| 18 | 1144 | 1216 | | | | 26.64 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

| | phosphate | ~~Roadbase~~ |
|---|---|---|
| Total Loads | | |
| Total Tons | | 79.40 |

Start Haul: 530 am
End Haul: pm
Total Hours:
Driver's Signature: Phil Simpson

Comments:

Start Haul: 530 am
End Haul: pm
Time: pm
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

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SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name SPACKMAN / MIKE
Trk/Trl # 31
Ticket # 5436
Trucking Company
Date 8-6-10
Job Address GOERGETOWN CAYANA
Job Number
Material PHOSPHATE / FELTER ROCK
Ending Mileage
Starting Mileage
(=) Total Mileage

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi-End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | PHOSPHATE TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 750 | 753 | | 830 | 835 | 27.33 |
| 2 | 1031 | 940 | | 1120 | 1121 | 26.24 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | FELTER TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 644 | 651 | | 742 | 748 | 26.18 |
| 17 | 906 | 936 | | 1028 | 1029 | 26.69 |
| 18 | 1143 | 1208 | | 1258 | 1259 | 26.41 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads
Total Tons 79.28

Start Haul 530
End Haul
Total Hours
Driver's Signature Mike Dunn

Comments GOERGETOWN CAYANA PHOSPHATE FELTER ROCK FROM JUAN PIT TO GOERGETOWN CAYANA

Start Haul 530
End Haul
Time
Total Hours
Supervisor's Signature

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

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Soda Springs, ID 83276

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SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Randy Davis
Trucking Company: DBT
Job Address: Soda Springs
Job Number: Soda Springs
Material: Filter Rock / Phosphate

Trk/Trl #: 46 T33
Date: 8-6-10
Ticket #: 5560

Ending Mileage:
Starting Mileage: 456922
(=) Total Mileage:

Truck Type: (Circle One) 10 wheeler / 12 wheeler / 14 wheeler / Truck & Pup / Semi End / ~~Single Belly~~ / Double Belly / Side Dump / Other 7 Axles

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 545 | 610 | Rock | 713 | 725 | 28.49 |
| 2 | | | | | | |
| 3 | 726 | 731 | Phosphate | 812 | 826 | 28.28 |
| 4 | | | | | | |
| 5 | 905 | 925 | Rock | 1621 | 1623 | 28.74 |
| 6 | | | | | | |
| 7 | 1026 | 1034 | Phosphate | 1114 | 1118 | 27.69 |
| 8 | | | | | | |
| 9 | 1136 | 1200 | Rock | 1252 | 1255 | 28.87 |
| 10 | | | | | | |
| 11 | 100 | | Phosphate | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads: Filter Rock / Phosphate 3
Total Tons: 86.10 ok

Start Haul: 530 am
End Haul: PM
Total Hours:
Driver's Signature:

Comments: Filter Rock From Soda Springs to Georgetown Canyon Phosphate From Georgetown to Soda Springs Phosphate

Start Haul: 545 am
End Haul: PM
Time:
Total Hours:
Supervisor's Signature:

NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.
NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.

White - DBT Office / Yellow - Job Supervisor / Pink - Dan Bailey / Gold - Driver

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SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name Carl Nieffenegger
Trk/Trl # 57 T37
Ticket # 5577
Trucking Company Dan Bailey
Date 08-06-2010
Job Address Georgetown Canyon
Job Number
Material Phosphate / Filter Rock
Ending Mileage
Starting Mileage 249542
(=) Total Mileage

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

Filter Rock

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 608 | 627 | RD | 724 | 725 | 2662 |
| 2 | 906 | 913 | RD | 1006 | 1007 | 2663 |
| 3 | 1138 | 1157 | RD | 1248 | 1250 | 2600 |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Phosphate

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 728 | 734 | | 815 | 826 | 2646 |
| 17 | | | | 1111 | 1117 | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads: 3 Loads Filter Rock; ___ Loads Phosphate

Total Tons: 7925 Tons Filter Rock; ___ Tons Phosphate

Start Haul 5 30 am
End Haul
Total Hours
Driver's Signature Carl Nieffenegger

Comments Ivans Pit To Georgetown Canyon Filter Rock
Georgetown Canyon To Soda Springs Phosphate

Start Haul 5 30 am
End Haul
Time
Total Hours
Supervisor's Signature

NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.
NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

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Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Lynn W. Gault
Trk/Trl #: 54-79
Ticket #: 5619
Trucking Company: Dan Bailey
Date: 8-3-10
Job Address: Soda Springs
Job Number:
Material: R Basal Phosphate

Ending Mileage: 236401
- Starting Mileage: 236279
(=) Total Mileage: 122

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| | LOAD TIME | | Phos | UNLOAD TIME | | |
|---|---|---|---|---|---|---|
| # | IN | OUT | TICKET # | IN | OUT | TONS |
| 1 | 3:24 | 3:30 | | 4:05 | 4:10 | 24.55 |
| 2 | 5:27 | 5:31 | | 6:14 | 6:15 | 24.94 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| | LOAD TIME | | Base | UNLOAD TIME | | |
|---|---|---|---|---|---|---|
| # | IN | OUT | TICKET # | IN | OUT | TONS |
| 16 | 2:18 | 2:40 | | 3:23 | 3:24 | 23.79 |
| 17 | 4:23 | 4:4[illegible] | | 5:25 | 5:26 | 23.69 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads: Phos. 2 | Base 2
Total Tons: 49.49 | 47.48 ok

Start Haul: 1:30 P.M.
End Haul: 6:15 P.M.
Total Hours: 4.75
Driver's Signature: Lynn W. Gault

Comments: Lee's Pit To Georgetown Canyon & Georgetown Canyon To Soda Springs Phosphate

Start Haul:
End Haul:
Time:
Total Hours:
Supervisor's Signature:

NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.
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White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
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SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Jack von Rot / Mark Atkinson
Trk/Trl #: 32-6T
Ticket #: 5405
Trucking Company: DBT
Date: 9-3-10
Job Address: Soda Springs Phosphate
Job Number:
Material: Phosphate / Road Base
Ending Mileage:
Starting Mileage:
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi-End
Single Belly
Double Belly
Side Dump
Other

Phosphate

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 215 | 320 | | 400 | 401 | 26.45 |
| 2 | 515 | 519 | | 600 | 602 | 27.31 |
| 3 | | | | | | |
| 4 | | | | | | 53.76 |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Road Base

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 010 | 226 | | 310 | 313 | 26.57 |
| 17 | 415 | 432 | | 513 | 514 | 26.71 |
| 18 | | | | | | |
| 19 | | | | | | 53.28 |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

ok

Total Loads: 4
Total Tons: 106.57

Start Haul: 1:30 PM
End Haul: 602
Total Hours:
Driver's Signature:

Comments: Roadbase from Larry's Pit to Georgetown Canyon Summit
Phosphate from Georgetown Summit to Soda Springs Phosphate

Start Haul: 1:30 PM
End Haul: 602
Time:
Total Hours:
Supervisor's Signature:

NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.
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White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

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SODA SPRINGS, ID

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Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: PELUPE McDONALD
Trk/Trl #: 47/T13
Ticket #: 5620
Trucking Company: DAN BAILEY
Date:
Job Address: GEORGETOWN CANYON
Job Number:
Material: PHOSPHATE / SPACER
Ending Mileage: 74243
Starting Mileage: 74049
(=) Total Mileage: 194

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 2:18 | 3:06 | | 4:05 | 4:09 | 24.05 |
| 2 | 5:16 | 5:[illegible] | | 6:09 | 6:10 | 24.17 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 2:17 | 2:14 | | 3:26 | 3:21 | 23.66 |
| 17 | 4:25 | 4:38 | | 5:06 | [illegible] | 23.59 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads: 4 PER DAY
Total Tons: PHOS 92.62 SPACER 47.25

Start Haul: 2:00 PM
End Haul: 6:15 PM
Total Hours: 4.25
Driver's Signature:

Comments: IT TOOK HARRYS R.T. TO GEORGE TOWN CANYON

PHOS WATC GEORGE TOWN CANYON TO SODA SPRINGS

Start Haul:
End Haul:
Time:
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name _____ Trk/Trl # _____ Ticket # 5618

Trucking Company _____ Date _____

Job Address _____

Job Number _____

Material _____

Ending Mileage _____

- Starting Mileage _____

(=) Total Mileage _____

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other _____

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 210 | 210 | R/L | 325 | 309 | 26.20 |
| 2 | 412 | 415 | — | 502 | 501 | 26.[illegible] |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 211 | 215 | — | 5[illegible] | 3[illegible] | 26.62 |
| 17 | 5[illegible] | 529 | — | 536 | 549 | 26.48 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

| | | |
|---|---|---|
| Total Loads | 2 | 2 |
| Total Tons | 53.40 | 52.49 |

ok

Start Haul _____ End Haul _____

Total Hours _____ Driver's Signature _____

Comments _____

Start Haul _____ End Haul _____ Time _____

Total Hours _____ Supervisor's Signature _____

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Spackman Ent / Mark Atkinson **Trk/Trl #** 22-6T **Ticket #** 5406
**Trucking Company** DBT **Date** 9-4-10
**Job Address** Soda Springs Phosphate
**Job Number**
**Material** Phosphate / Road Base

Ending Mileage
Starting Mileage
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # (Phosphate) | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 922 | 926 | | 700 | 703 | 27.67 |
| 2 | 931 | 933 | | 1012 | 1014 | 25.72 |
| 3 | 1139 | 1141 | | 1230 | 1231 | 26.88 |
| 4 | 138 | 141 | | 220 | 221 | 26.91 |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # (Road Base) | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 657 | 657 | | 720 | 721 | 26.61 |
| 17 | 919 | 915 | | 930 | 928 | 26.79 |
| 18 | 1036 | 1032 | | 1135 | 1137 | 26.81 |
| 19 | 1045 | 1043 | | 136 | 137 | 26.83 |
| 20 | 233 | 241 | | 330 | 335 | 26.70 |
| 21 | | | | | | 133.90 ok |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads
Total Tons

**Start Haul** 0545 **End Haul**
**Total Hours** **Driver's Signature**

**Comments** Road Base From Lavery Pit To Bangtail Summit
Phosphate from Bangtail Summit to Soda Springs phosphate
Crusher

**Start Haul** **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: LYNN W. GAULT
Trk/Trl #: 54-T9
Ticket #: 5532
Trucking Company: DAN BAILEY
Date: 8-4-10
Job Address: Soda Springs Phosphate
Job Number:
Material: R. Base / Phosphate
Ending Mileage:
Starting Mileage: 736401
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
(Single Belly)
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | Phos. TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 7:08 | 7:13 | | 7:54 | 7:59 | 25.34 |
| 2 | 9:16 | 9:19 | | 9:57 | 10:09 | 24.76 |
| 3 | 11:22 | 11:25 | | 12:04 | 12:09 | 24.50 |
| 4 | 1:24 | 1:26 | | 2:09 | 2:11 | 24.75 |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | BASE TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 6:03 | 6:16 | | 6:58 | 7:07 | 23.49 |
| 17 | 8:14 | 8:27 | | 9:11 | 9:12 | 23.58 |
| 18 | 10:24 | 10:35 | | 11:19 | 11:22 | 23.09 |
| 19 | 12:30 | 12:34 | | 1:23 | 1:24 | 23.49 |
| 20 | 2:25 | 2:29 | | 3:17 | 3:19 | 23.33 |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

| | Phos. | R. Base |
|---|---|---|
| Total Loads | 5 | 5 |
| Total Tons | ~~117.18~~ | 117.18 |

ok

Start Haul: 5:45 A.M.
End Haul:
Total Hours:
Driver's Signature: Lynn W. Gault

Comments: LEE'S PIT R. BASE TO GEORGETOWN CANYON – GEORGETOWN CANYON TO Soda Springs Phosphate

Start Haul:
End Haul:
Time:
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Phil Simpson
Trk/Trl #: 53-T37
Ticket #: 5534
Trucking Company: DBT
Date: 8-4-10
Job Address: Soda Springs
Job Number:
Material: Phosphate / Road Base
Ending Mileage:
Starting Mileage: 555929
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # (Phosphate) | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 712 | 716 | | 800 | 808 | 26.38 |
| 2 | 924 | 929 | | 1005 | 1010 | 26.50 |
| 3 | 1128 | 1133 | | 1215 | 1220 | 26.53 |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # (RB) | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 545 | 625 | | 711 | 712 | 26.63 |
| 17 | 820 | 827 | | 923 | 924 | 26.52 |
| 18 | 1025 | 1041 | | 1127 | 1128 | 26.61 |
| 19 | 1233 | 1240 | | 319 | 320 | 26.63 |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Phosphate | Road Base

Total Loads:
Total Tons: 106.6 ok

Start Haul: 545 am
End Haul: pm
Total Hours:
Driver's Signature: Phil Simpson

Comments: Hauling Road Base to Georgetown Canyon. Hauling phosphate from Georgetown Canyon to Soda Springs. 545 am start. Broken cool water hose 130pm-320pm

Start Haul: 545 am
End Haul: pm
Time: pm
Total Hours:
Supervisor's Signature:

NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.
NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name _____ Trk/Trl # _____ Ticket # 5611

Trucking Company _____ Date _____

Job Address _____

Job Number _____ Ending Mileage _____

Material _____ Starting Mileage _____

(=) Total Mileage _____

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other _____

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2 | [illegible] | [illegible] | — | [illegible] | [illegible] | [illegible] |
| 3 | [illegible] | [illegible] | — | [illegible] | [illegible] | [illegible] |
| 4 | [illegible] | [illegible] | — | [illegible] | [illegible] | [illegible] |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 17 | [illegible] | [illegible] | — | [illegible] | [illegible] | [illegible] |
| 18 | [illegible] | [illegible] | — | [illegible] | [illegible] | [illegible] |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads 4

Total Tons 104.91

Start Haul _____ End Haul _____

Total Hours _____ Driver's Signature _____

Comments _____

Start Haul _____ End Haul _____ Time _____

Total Hours _____ Supervisor's Signature _____

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

Dan Bailey Trucking LLC
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: DELMAR MCDONALD
Trk/Trl #: 47-T13
Ticket #: 5621
Trucking Company: DAN BAILEY
Date: 8-4-10
Job Address: GEORGETOWN CANYON
Job Number:
Material: PHOSPHATE / RD BSE
Ending Mileage:
Starting Mileage: 30043
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | RDBSE TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:00 | 6:07 | | 6:53 | 7:05 | 23.65 |
| 2 | [illegible] | 7:26 | | 9:07 | 9:09 | 23.97 |
| 3 | 10:25 | 10:33 | | 11:17 | 11:17 | 23.69 |
| 4 | 12:26 | 12:31 | | 1:17 | 1:17 | 23.56 |
| 5 | 2:32 | 2:39 | | 3:25 | | 23.98 |
| 6 | | | | | | |
| 7 | | | | TOTAL | | 118.0 |
| 8 | | | | | | OK |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | PHOS TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 7:07 | 7:09 | | 7:50 | 7:49 | 24.26 |
| 17 | 9:10 | 9:17 | | 10:03 | 10:10 | 24.32 |
| 18 | 11:20 | 11:22 | | 12:12 | 12:13 | 24.45 |
| 19 | 1:21 | 1:24 | | 2:10 | 2:15 | 24.42 |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads: 5 RDBSE
Total Tons: RD BSE 118.0 PHOS

Start Haul: 5:45
End Haul:
Total Hours:
Driver's Signature:

Comments: PHOSPHATE GEORGETOWN CANYON TO SODA SPRINGS
RD BSE LARRYS PIT TO GEORGETOWN CANYON

Start Haul:
End Haul:
Time:
Total Hours:
Supervisor's Signature:

NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.
NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Phil Simpson
Trk/Trl #: 53-T39
Ticket #: 5535
Trucking Company: DBT
Date: 8-5-15
Job Address: Soda Springs
Job Number:
Material: Phosphate / Road Base

Ending Mileage:
Starting Mileage: 556173
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 710 | 715 | | 755 | 813 | 26.61 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 545 | 617 | | 709 | 710 | 28.11 |
| 17 | 824 | 843 | | | | 27.13 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

PHOSPHATE | Road Base

Total Loads:
Total Tons: 55.24

Start Haul: 543 am
End Haul: pm
Total Hours:
Driver's Signature: Phil Simpson

Comments: Haul RB from Soda Springs to Conway Town Canyon. Haul Phosphate from Conway Town Canyon to Soda Springs. 543 am Start.

Start Haul: 545 a.m.
End Haul: 8-9
Time: pm
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

Dan Bailey Trucking LLC
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name SPACKMAN/MIKE
Trk/Trl # 3715
Ticket # 5435
Trucking Company
Date 8-5-10
Job Address GEORGETOWN CANYON
Job Number
Material PHOSPHATE
Ending Mileage
Starting Mileage
(=) Total Mileage

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | PHOSPHATE TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 732 | 735 | | 816 | 819 | 26.50 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | ROAD BASE TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 638 | 644 | | 721 | 725 | 27.75 |
| 17 | 848 | 854 | | | | 27.73 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads
Total Tons 55.51

Start Haul 530
End Haul
Total Hours
Driver's Signature

Comments PHOSPHATE GEORGETOWN TO SODA SPRINGS
ROAD BASE LARRY'S PIT TO GEORGETOWN CANYON

Start Haul 530
End Haul
Time
Total Hours
Supervisor's Signature

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

Dan Bailey Trucking LLC
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Lynn W. Gault
Trk/Trl #: 54/T9
Ticket #: 4701
Trucking Company: Dan Bailey
Date: 8-5-10
Job Address: Soda Springs Phosphate
Ending Mileage:
DBT's Job Number:
Starting Mileage: 936709
Material: R. Base / Phosphate
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other:

Phos.

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 7:17 | 7:27 | | 8:06 | 8:15 | 25.17 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Base

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 6:07 | 6:32 | | 7:13 | 7:15 | 23.5 |
| 17 | 8:30 | 8:47 | | 9:31 | 9:33 | 23.64 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

| | Phos. | R. Base |
|---|---|---|
| Total Loads | | 2 |
| Total Tons | 25.17 | 47.14 |

Start Haul: 5:45 AM
End Haul:
Total Hours:
Driver's Signature: Lynn W. Gault

Comments: Lee's Pit R. Base To Georgetown Canyon — Georgetown Canyon To Soda Springs Phosphate

Start Haul:
End Haul:
Time:
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

Dan Bailey Trucking LLC
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Randy Davis
Trucking Company: DBT
Job Address: Soda Springs
Job Number: Soda Springs
Material: Base / Phosphate

Trk/Trl #: 46 T33
Ticket #: 5559
Date: 8-5-16

Ending Mileage:
Starting Mileage: 456636
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other: 2 Axles

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 545 | 611 | Base | 658 | 700 | 28.87 |
| 2 | 705 | 710 | Phos | 752 | [illegible] | 28.11 |
| 3 | 825 | 835 | Base | 920 | 925 | 28.51 |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads: 57.38 RB
28.11 Phos

Total Tons: 85.49

Start Haul: 530 am
End Haul:
Total Hours:
Driver's Signature:

Comments: Base From larry's pit to Georgetown Canyon
Phosphate From Georgetown Canyon to Soda Springs Phospha

Start Haul: 545 am
End Haul:
Time:
Total Hours:
Supervisor's Signature:

NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.
NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Carl Wieffenegger
Trk/Trl #: 55 737
Ticket #: 5576
Trucking Company: Dan Bailey
Date: 08-05-2010
Job Address: George Town Canyon
Job Number:
Ending Mileage:
Starting Mileage: 249 205
Material: Phosphate / Road Base
(=) Total Mileage:

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
(Single Belly)
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | Road Base TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 600 | 606 | | 657 | 659 | 2628 |
| 2 | 825 | 831 | | 917 | 918 | 2669 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | 52.97 |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | Phosphate TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 703 | 707 | | 748 | 810 | 2662 |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Loads Road Base
Loads Phosphate

Total Loads
Total Tons

Start Haul: 5 30 am
End Haul:
Total Hours:
Driver's Signature: Carl Wieffenegger

Comments: Soda Springs To George Town Canyon Road Base
Georgetown Canyon To Soda Springs Phosphate

Start Haul: 5 45 am
End Haul:
Time:
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: Sodaman Fat / Mark Atkinson
Trk/Trl #: 32-6T
Ticket # 5407
Trucking Company: DBT
Date: 8-5-10
Job Address: Soda Springs Phosphate
Job Number:
Material: Phosphate / Roadbase

Ending Mileage:
- Starting Mileage:
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| | LOAD TIME | | Phosphate | UNLOAD TIME | | |
|---|---|---|---|---|---|---|
| # | IN | OUT | TICKET # | IN | OUT | TONS |
| 1 | 722 | 723 | | 912 | 922 | 26.50 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| | LOAD TIME | | Road Base | UNLOAD TIME | | |
|---|---|---|---|---|---|---|
| # | IN | OUT | TICKET # | IN | OUT | TONS |
| 16 | 612 | 658 | | 720 | 721 | 26.67 |
| 17 | 836 | 901 | | 944 | 945 | 26.83 |
| 18 | | | | | | 53.50 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads:
Total Tons: 53.50

Start Haul: 530 AM
End Haul:
Total Hours:
Driver's Signature:

Comments: Roadbase from Lavery Pit to Georgetown Cowboy Summit
Phosphate from Westpoint Company Summit to Soda Springs Phosphate

Start Haul: 530 AM
End Haul:
Time:
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

Dan Bailey Trucking LLC
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

Drivers Name: DELMAR MCDONALD
Trk/Trl #: 47T13
Ticket #: 5622
Trucking Company: DAN BAILEY
Date: 8-5-10
Job Address: GEORGETOWN CANYON
Job Number:
Material: PHOS RD BSC
Ending Mileage:
Starting Mileage: 3027
(=) Total Mileage:

Truck Type: (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | RD BSC TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:09 | 6:25 | | 7:07 | 7:10 | 23.69 |
| 2 | 8:50 | 9:07 | | 9:50 | 9:55 | 23.65 |
| 3 | | | | | TOTAL | 47.34 |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | PHOS TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 7:16 | 7:29 | | 8:10 | 8:30 | 24.19 |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads: 2 RD BSC

Total Tons: RD BSC 47.34 ok

Start Haul: 5:45 AM
End Haul:
Total Hours:
Driver's Signature:

Comments: PHOSPHATE GEORGETOWN CANYON TO SODA SPRINGS
RD BSC HARRY'S PIT TO GEORGETOWN CANYON

Start Haul:
End Haul:
Time:
Total Hours:
Supervisor's Signature:

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** _____ **Trk/Trl #** _____ **Ticket #** 5612

**Trucking Company** _____ **Date** _____

**Job Address** _____

**Job Number** _____

**Material** _____

Ending Mileage _____

\- Starting Mileage _____

(=) Total Mileage _____

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other _____

| | LOAD TIME | | | UNLOAD TIME | | |
|---|---|---|---|---|---|---|
| # | IN | OUT | TICKET # | IN | OUT | TONS |
| 1 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 2 | 902 | 917 | — | [illegible] | [illegible] | [illegible] |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| | LOAD TIME | | | UNLOAD TIME | | |
|---|---|---|---|---|---|---|
| # | IN | OUT | TICKET # | IN | OUT | TONS |
| 16 | [illegible] | [illegible] | [illegible] | 904 | 827 | [illegible] |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads _____

Total Tons _____ 52.17 ok

**Start Haul** _____ **End Haul** _____

**Total Hours** _____ **Driver's Signature** _____

**Comments** _____

**Start Haul** _____ **End Haul** _____ **Time** _____

**Total Hours** _____ **Supervisor's Signature** _____

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work*

White - DBT Office  Yellow - Job Supervisor  Pink - Dan Bailey  Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** DELMAR McDONALD
**Trucking Company** DAN BAILEY
**Job Address** GEORGETOWN CANYON
**Job Number**
**Material** PHOSPHATE / FILTER ROCK

**Trk/Trl #** 47-T13 **Ticket #** 5604
**Date** 7-22-10

Ending Mileage
- Starting Mileage 26249
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
~~Single Belly~~
Double Belly
Side Dump
Other

#1 PHOS

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:45 | 7:07 | | 7:55 | 7:57 | 27.98 |
| 2 | 8:33 | 8:35 | | 9:15 | 9:17 | 24.75 |
| 3 | 11:10 | 11:12 | | 11:55 | 12:00 | 24.87 |
| 4 | 1:17 | 1:19 | | 2:04 | 2:21 | 24.70 |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

#2 FILTER

Left over ore in Load

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 9:49 | 10:16 | 80 | 11:07 | 11:09 | 23.31 |
| 17 | 12:16 | 12:21 | 80 | 11:10 | 11:12 | 23.37 |
| 18 | 2:36 | 2:41 | 81 | 3:31 | 3:33 | 23.57 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Subtracted out.

Total Loads FILTER ROCK 3

Total Tons 46.66 FILTER ROCK 70.57

**Start Haul** 6:15 AM **End Haul**
**Total Hours** **Driver's Signature**

**Comments** GEORGETOWN CANYON PHOSPHATE TO
#1 SODA SPRINGS
#2 SIEMENS PIT TO GEORGETOWN CANYON FILTER ROCK

**Start Haul** **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Jason Grissinger
**Trucking Company** Dan Baily
**Job Address** Soda springs phosphate
**Job Number**
**Material** Phosphate / Filter Rock

**Trk/Trl #** 46 T-33 **Ticket #** 5551
**Date** 7-22-2010

Ending Mileage
Starting Mileage 4154018
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

Phosphate

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:48 | 7:03 | Phosp | 7:40 | 7:41 | 28.19 |
| 2 | 8:18 | 8:24 | Phosp | 9:02 | 9:25 | 28.91 |
| 3 | 10:51 | 10:57 | [redacted] | 11:36 | 11:39 | 30.12 |
| 4 | 12:57 | 1:05 | | 1:45 | 1:48 | 27.35 |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Filter Rock

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 9:45 | 10:02 | RM | 10:46 | 10:49 | 28.29 |
| 17 | 11:54 | 12:02 | RM | 12:50 | 12:55 | 28.49 |
| 18 | 2:03 | 2:11 | RM | 3:01 | 3:03 | 28.22 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | 85 Ton Filter Rock | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads
Total Tons

**Start Haul** 6:15 AM **End Haul**
**Total Hours** **Driver's Signature**

**Comments** Hauling From George Town cayon to Soda spring phosphate & Hauling Filter Rock From the farm to george Town cayon

**Start Haul** 6:15 AM **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
**721 Pioneer Dr.**
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Phil Simpson
**Trk/Trl #** 53-T39
**Ticket #** 3049
**Trucking Company** DBT
**Date** 7-22-10
**Job Address** Soda Springs
**DBT's Job Number**
**Ending Mileage**
**Material** phosphate
**Starting Mileage** 554210
**(=) Total Mileage**

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # (phos) | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 615 | 715 | | 800 | 805 | 26.76 |
| 2 | 810 | 850 | | 819 | 820 | 26.30 |
| 3 | 1110 | 1115 | | 1200 | 1201 | 27.78 |
| 4 | 116 | 124 | | 200 | 205 | 26.13 |
| 5 | JRO | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # (filter) | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 945 | 1020 | RJ | 1109 | 1110 | 27.00 |
| 17 | 1114 | 1229 | RJ | 115 | 116 | 26.50 |
| 18 | 219 | 229 | RJ | 318 | 320 | 26.81 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

phos | filter

**Total Loads** 8032 D Ton

**Total Tons**

**Start Haul** 615 am **End Haul** pm
**Total Hours** **Driver's Signature** Phil Simpson

**Comments** Hauling phosphate from Georgetown Canyon to Soda Springs. 615 am start.
Haul rock from ~~[illegible]~~ Simmons pit to Georgetown.

**Start Haul** 615am **End Haul** pm **Time** pm
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Carl Nieffenegger
**Trucking Company** Dan Bailey
**Job Address** George Town Canyon To Soda Springs
**Job Number**
**Material** Phosphate / Filter Rock

**Trk/Trl #** 57 T37 **Ticket #** 6341
**Date** 07-22-2010

Ending Mileage
Starting Mileage 246166
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 648 | 710 | | 749 | 750 | 2654 |
| 2 | 829 | 837 | | 918 | 919 | 2686 |
| 3 | 1059 | 1101 | | 1142 | 1144 | 2727 |
| 4 | 101 | 107 | | 148 | 152 | 2650 |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Phosphate

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 945 | 1007 | | 1054 | 1055 | 2616 R |
| 17 | 1157 | 1206 | | 1255 | 1256 | 2631 R |
| 18 | 206 | 216 | | 302 | 304 | 2663 R |
| 19 | 3 | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Filter Rock

Total Loads 3 Loads Phosphate / 3 Loads Rock / Total Loads
Total Tons 79.10 Tons Phosphate / Tons Filter Rock

**Start Haul** 6 15 am **End Haul**
**Total Hours** **Driver's Signature** Carl Nieffenegger

**Comments** George Town Canyon To Soda Springs Phosphate
Filter Rock From The Farm Pit To George Town Canyon

**Start Haul** 6 15 am **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Jared Bailey
**Trucking Company** DBT
**Job Address** Soda Springs Phosphate
**Job Number** Soda Springs
**Material** Phosphate

**Trk/Trl #** 5179 **Ticket #** 5470
**Date** 7-22-2010

Ending Mileage
Starting Mileage 734848
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | Phos TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:45 | 6:59 | Phos | 7:36 | 7:37 | 23.19 |
| 2 | 8:15 | 8:19 | Phos | 9:05 | 9:29 | 23.83 |
| 3 | ~~9:17~~ | ~~9:54~~ | ~~Filter~~ | | | ~~23.62~~ |
| 4 | 10:49 | 10:52 | Phos | 12:19 | 12:27 | 24.77 |
| 5 | 1:46 | 1:50 | Phos | 2:28 | 2:33 | 24.50 |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | Filter TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 9:47 | 9:54 | RQ | 10:43 | 10:45 | 23.62 |
| 17 | 12:40 | 12:49 | RQ | 1:40 | 1:43 | 23.54 |
| 18 | 2:48 | 2:53 | RQ | | | 23.43 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads 5 Phos | 3 Filter Rock
Total Tons | 70.59

**Start Haul** 6:15 a.m. **End Haul**
**Total Hours** **Driver's Signature** Jared Bailey

**Comments** Phosphate Georgetown Canyon to Soda Springs Phosphate

**Start Haul** 6:15 a.m. **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** James Jeppesen **Trk/Trl #** 48/3 **Ticket #** 5248
**Trucking Company** Dan Bailey **Date** 7/22/10
**Job Address** Soda Springs Phosphate
**Job Number** —
**Material** Phosphate

Ending Mileage
Starting Mileage 802343
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | Phos. TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 645 | 715 | — | 755 | 756 | 2654 |
| 2 | 858 | 904 | — | 945 | 950 | 2669 |
| 3 | 1119 | 1122 | — | 1159 | 1200 | 2742 |
| 4 | 125 | 128 | — | 208 | 209 | 2657 |
| 5 | | | — | | | |
| 6 | | | — | | | |
| 7 | | | — | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | Rock TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 1002 | 1011 | Rock RA | 1117 | 1119 | 2588 |
| 17 | 1214 | 1235 | — RA | 120 | 122 | 26.1 |
| 18 | 221 | 232 | RA | 318 | 319 | 2607 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Phosphate/Rock

Total Loads 3
Total Tons 78.05

**Start Haul** 6:15am **End Haul**
**Total Hours** **Driver's Signature**

**Comments** Hauled Phosphate from Georgetown Canyon to Soda Springs. Hauled Rock from Simmons Pit to Georgetown Canyon
8:00am - 8:15am Flake over line

**Start Haul** 6:15am **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

White - DBT Office Yellow - Job Supervisor Pink - Dan Bailey Gold - Driver

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** James Jeppesen **Trk/Trl #** 48/3 **Ticket #** 5249
**Trucking Company** Dan Bailey **Date** 7/23/10
**Job Address** Soda Springs Phosphate
**Job Number**
**Material** Phosphate / Rock

Ending Mileage
Starting Mileage 802616
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

Phos.

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 725 | 730 | — | 810 | 815 | 2689 |
| 2 | 935 | 938 | — | 1016 | 1021 | 2728 |
| 3 | 1134 | 1137 | — | 1215 | 1220 | 2619 |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

Rock

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 611 | 635 | RA | 720 | 722 | 2631 |
| 17 | 840 | 847 | RA | 929 | 931 | 2665 |
| 18 | 1136 | 1143 | RA | 1128 | 1130 | 2589 |
| 19 | 1235 | 1245 | RA | 126 | 128 | 2606 |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Phos. / Rock

Total Loads [redacted] 4

Total Tons [redacted] 104.31 ✓DW

**Start Haul** 645am **End Haul**
**Total Hours** **Driver's Signature**

**Comments** Hauled Rock from Soda Springs to Georgetown Canyon. Hauled Phosphate from Georgetown Canyon to Soda Springs

**Start Haul** 945am **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Jared Bailey
**Trucking Company** DBT
**Job Address** Soda Springs
**Job Number** Phosphate - Filter rock
**Material** Phosphate - Filter rock

**Trk/Trl #** 54 T-9 **Ticket #** 5471
**Date** 7-23-2010

Ending Mileage
Starting Mileage 735140
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

*1 Phos

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:57 | 7:05 | | 7:45 | 7:49 | 24.68 |
| 2 | 8:58 | 9:01 | | 9:40 | 9:45 | 25.01 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

*2 Filter

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 6:00a | 6:03 | RD | 6:48 | 6:52 | 23.65 |
| 17 | 8:03 | 8:07 | RD | 8:53 | 8:55 | 23.57 |
| 18 | 10:00 | 10:05 | RD | 10:53 | 10:55 | 23.31 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

70.51 ✓DW

Total Loads
Total Tons F.R. 70.51

**Start Haul** 5:45 a.m **End Haul**
**Total Hours** **Driver's Signature** Jared Bailey

**Comments** Phosphate Central Farmers to Soda Springs Phosphate
Filter rock Stanmore Pit to Central Farmers

**Start Haul** 5:45 a.m **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Jason Grissinger
**Trucking Company** Dan Bailey
**Job Address** Soda springs phosphate
**Job Number**
**Material** Phosphate / Filter Rock

**Trk/Trl #** 46 / T-33 **Ticket #** 5552
**Date** 7-23-2010

Ending Mileage
- Starting Mileage 454312
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 6:59 | 7:09 | | 7:45 | 7:50 | 28.93 |
| 2 | 9:03 | 9:07 | | 9:44 | 9:47 | 28.32 |
| 3 | | | | | | |
| 4 | | | Phosphate | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 5:58 | 6:08 | RA | 6:56 | 6:57 | 28.47 |
| 17 | 8:04 | 8:13 | RA | 8:58 | 9:00 | 28.53 |
| 18 | 10:00 | 10:12 | RA | 10:57 | 10:59 | 28.71 |
| 19 | | | Rock | | | |
| 20 | | | | | | |
| 21 | | | Filter | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads 3 loads Filter Rock
✓DW
Total Tons 85.73 Ton Filter Rock

**Start Haul** **End Haul**
**Total Hours** **Driver's Signature**

**Comments** Hauling Filter Rock From [redacted] Simmon's Pit to georgetown canyon & phosphate Back to soda springs phosphate
Simmon's Pit

**Start Haul** **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Carl Nieffenegger
**Trucking Company** Dan Bailey
**Job Address** Georgetown Canyon To Soda Springs / Soda Springs To Georgetown Canyon
**Job Number**
**Material** Phosphate / Filter Rock

**Trk/Trl #** 57 T37 **Ticket #** 6342
**Date** 07-23-2010

Ending Mileage
Starting Mileage 246457
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 705 | 712 | | 751 | 756 | 2601 |
| 2 | 908 | 911 | | 950 | 955 | 2588 |
| 3 | | | | | | |
| 4 | | | Phosphate | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 605 | 615 | Filter Rock | 701 | 702 | 2669 |
| 17 | 810 | 819 | | 902 | 904 | 2650 |
| 18 | 1609 | 1020 | | 1105 | 1106 | 2669 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Loads Phosphate
3 Loads Filter Rock

Total Loads

Tons Phosphate
79.88 Tons Filter Rock

Total Tons

✓ DW

**Start Haul** 5 45 am **End Haul**
**Total Hours** **Driver's Signature** Carl Nieffenegger

**Comments** George Town Canyon To Soda Springs — Phosphate
Soda Springs To George Town Canyon — Filter Rock

**Start Haul** 5 45 am **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
**721 Pioneer Dr.**
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** Phil Simpson **Trk/Trl #** 53-T39 **Ticket #** 3050

**Trucking Company** DBT **Date** 7-23-10

**Job Address** Soda Springs

**DBT's Job Number**

**Material** Phosphate

Ending Mileage 554505

Starting Mileage 554505

(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

Phos

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 707 | 715 | | 755 | 800 | 26.35 |
| 2 | 911 | 920 | | 955 | 957 | 26.19 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
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| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

filler

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 545 | 622 | RQ | 705 | 707 | 26.68 |
| 17 | 811 | 826 | RQ | 910 | 911 | 26.53 |
| 18 | 1012 | 1028 | RQ | 1110 | 1111 | 26.28 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

| | Phosh | filler |
|---|---|---|
| Total Loads | | 79.49 TN |
| Total Tons | | ✓ DW |

**Start Haul** 545 am **End Haul** pm

**Total Hours** **Driver's Signature** Phil Simpson

**Comments** Haul filler from Soda Springs to George Town canyon. Haul Phosphate from George Town canyon to Soda Spring. 545 am start.

**Start Haul** 545 am **End Haul** pm **Time** pm

**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

**Dan Bailey Trucking LLC**
721 Pioneer Dr.
Soda Springs, ID 83276

DAN BAILEY TRUCKING
SODA SPRINGS, ID

J.D. Bailey 801-430-4202
Don Johnson 775-354-9790

# LEASE TRUCK HAUL TICKET

**Drivers Name** DELMAR MCDONALD **Trk/Trl #** 47 TB **Ticket #** 5605
**Trucking Company** DAN BAILEY **Date** 7-23-10
**Job Address** GEORGETOWN CANYON / SIEMENS PIT
**Job Number**
**Material** PHOSPHATE / FILTER ROCK

Ending Mileage
Starting Mileage 27318
(=) Total Mileage

**Truck Type:** (Circle One)
10 wheeler
12 wheeler
14 wheeler
Truck & Pup
Semi End
Single Belly
Double Belly
Side Dump
Other

#1 PHOS

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 1 | 7:24 | 7:27 | | 8:07 | 8:19 | 25.05 |
| 2 | 9:27 | 9:29 | | 10:00 | 10:15 | 24.99 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
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| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |

#2 FILTER

| # | LOAD TIME IN | LOAD TIME OUT | TICKET # | UNLOAD TIME IN | UNLOAD TIME OUT | TONS |
|---|---|---|---|---|---|---|
| 16 | 6:12 | 6:30 | RA | 7:15 | 7:17 | 23.65 |
| 17 | 8:33 | 9:40 | RA | 9:21 | 9:23 | 23.45 |
| 18 | 10:30 | 10:36 | RA | 11:22 | 11:24 | 23.57 |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |

Total Loads FILTER 3
Total Tons FILTER 70.65 ✓ DW

**Start Haul** 5:45 AM **End Haul**
**Total Hours** **Driver's Signature**

**Comments** #1 PHOSPHATE GEORGETOWN CANYON TO SODA SPRINGS

#2 SIEMENS PIT TO GEORGETOWN CANYON FILTER ROCK

**Start Haul** **End Haul** **Time**
**Total Hours** **Supervisor's Signature**

*NOTE: All information must be filled out completely and accurately or payment may be delayed or contested.*
*NOTE: Completed ticket is to be turned into DBT Representative the same day after completion of work.*

**White - DBT Office** **Yellow - Job Supervisor** **Pink - Dan Bailey** **Gold - Driver**

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74035
200218

CERTIFIED COPY OF SEED ANALYSIS

Lot Number: AGRI -43510

Kind and Variety: SODAR - STREAMBANK WHEATGRASS

Scientific Name: ELYMUS LANCEOLATUS SSP. PSAMMOPHILUS

Pure Seed %: 98.62 Total Viable %: 97.00

Crop %: 0.00 Germination %: 97.00

Inert %: 1.12 Hard Seed %: 0.00

Weed %: 0.26 Date of Test: 09/27/2010

Pure Live Seed %: 95.66 Origin: WA

Name of Lab: NST=TZ WA=P&G

Noxious or Restricted Weeds (all 50 States):

NONE

Lot Number: FEAR2 -42756

Kind and Variety: FAWN - TALL FESCUE

Scientific Name: FESTUCA ARUNDINACEA

Pure Seed %: 98.80 Total Viable %: 96.00

Crop %: 0.00 Germination %: 96.00

Inert %: 1.20 Hard Seed %: 0.00

Weed %: 0.00 Date of Test: 01/11/2010

Pure Live Seed %: 94.85 Origin: OR

Name of Lab: NST=G OR=P&G

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature: _____ Date: 11-2-10

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74035

200218

CERTIFIED COPY OF SEED ANALYSIS

Lot Number: TRFR -42102

Kind and Variety: PALASTINE - STRAWBERRY CLOVER

Scientific Name: TRIFOLIUM FRAGIFERUM

Pure Seed %: 99.98 Total Viable %: 87.00

Crop %: 0.00 Germination %: 72.00

Inert %: 0.02 Hard Seed %: 15.00

Weed %: 0.00 Date of Test: 07/07/2009

Pure Live Seed %: 87.23 Origin: AUS

Name of Lab: AGRI=G AGRI=P&G

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature: _____ Date: 11-3-10

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74035

200218

# CERTIFIED COPY OF SEED ANALYSIS

Lot Number: PHPR -42711

Kind and Variety: VNS - CLIMAX TIMOTHY

Scientific Name: PHLEUM PRATENSE

Pure Seed %: 99.61 Total Viable %: 93.00

Crop %: 0.13 Germination %: 93.00

Inert %: 0.26 Hard Seed %: 0.00

Weed %: 0.00 Date of Test: 10/27/2010

Pure Live Seed %: 92.64 Origin: CAN

Name of Lab: NST=TZ NST=P&G

Noxious or Restricted Weeds (all 50 States):

NONE

Lot Number: ELCI -42842

Kind and Variety: MAGNAR - GREAT BASIN WILDRYE

Scientific Name: LEYMUS CINEREUS

Pure Seed %: 99.84 Total Viable %: 97.00

Crop %: 0.00 Germination %: 97.00

Inert %: 0.16 Hard Seed %: 0.00

Weed %: 0.00 Date of Test: 02/21/2010

Pure Live Seed %: 96.84 Origin: MT

Name of Lab: NST=G NST=G

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature: _____ Date: 11-2-10

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043
801-768-4422

74035

200218

DATE SHIPPED: 09/15/2010

SOLD TO:
EVANS RANGE RECLAMATION
5050 BAILEY ROAD
ARBON, ID 83212

SEED MIX NUMBER: 74035

Letter of Certification

This memo is written to certify that this seed mix is true to label and has been duly tested by a fully accredited seed testing laboratory using rules sanctioned by the Association of Official Seed Analysts. The specifications of the seed used in the mix are as follows:

| Common Name | Variety | Origin | Lot# | Purity | Germ + Dorm. | %PLS |
|---|---|---|---|---|---|---|
| MOUNTAIN BROMEGRASS | BROMAR | WA | BRMA -42294 | 99.75 | 68 | 67.83 |
| WESTERN WHEATGRASS | ROSANA | ID | AGSM -42560 | 96.19 | 97 | 93.30 |
| CLIMAX TIMOTHY | VNS | CAN | PHPR -42711 | 99.61 | 93 | 92.64 |
| GREAT BASIN WILDRYE | MAGNAR | MT | ELCI -42842 | 99.84 | 97 | 96.84 |
| STREAMBANK WHEATGRAS | SODAR | WA | AGRI -43510 | 98.62 | 97 | 95.66 |
| TALL FESCUE | FAWN | OR | FEAR2-42756 | 98.80 | 96 | 94.85 |
| STRAWBERRY CLOVER | PALASTINE | AUS | TRFR -42102 | 99.98 | 87 | 87.23 |

Furthermore, we certify that said seed was packed as follows:

| Number of Bags | Bulk Lbs. Per Bag |
|---|---|
| 42 | 18.87 |

The number of pounds and percent of bulk for this mix are as follows:

| Common Name | Lot# | Total Bulk Lbs. | Total PLS Lbs. | % Bulk Lbs. |
|---|---|---|---|---|
| MOUNTAIN BROMEGRASS | BRMA -42294 | 144.48 | 98.00 | 18.23 |
| WESTERN WHEATGRASS | AGSM -42560 | 120.04 | 112.00 | 15.15 |
| CLIMAX TIMOTHY | PHPR -42711 | 63.88 | 59.18 | 8.06 |
| GREAT BASIN WILDRYE | ELCI -42842 | 130.11 | 126.00 | 16.42 |
| STREAMBANK WHEATGRAS | AGRI -43510 | 119.54 | 114.35 | 15.09 |
| TALL FESCUE | FEAR2-42756 | 118.08 | 112.00 | 14.90 |
| STRAWBERRY CLOVER | TRFR -42102 | 96.30 | 84.00 | 12.15 |

If you have any questions, please call.

Sincerely,

Granite Seed Co.

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74035

200218

CERTIFIED COPY OF SEED ANALYSIS

Lot Number: BRMA -42294

Kind and Variety: BROMAR - MOUNTAIN BROMEGRASS

Scientific Name: BROMUS MARGINATUS

Pure Seed %: 99.75 Total Viable %: 68.00

Crop %: 0.00 Germination %: 68.00

Inert %: 0.15 Hard Seed %: 0.00

Weed %: 0.10 Date of Test: 06/24/2010

Pure Live Seed %: 67.83 Origin: WA

Name of Lab: WA=TZ WA=TZ

Noxious or Restricted Weeds (all 50 States):

Bromus tectorum 11/1.00 lb

Lot Number: AGSM -42560

Kind and Variety: ROSANA - WESTERN WHEATGRASS

Scientific Name: PASCOPYRUM SMITHII

Pure Seed %: 96.19 Total Viable %: 97.00

Crop %: 0.10 Germination %: 97.00

Inert %: 3.61 Hard Seed %: 0.00

Weed %: 0.10 Date of Test: 12/02/2009

Pure Live Seed %: 93.30 Origin: ID

Name of Lab: WA=P&TZ

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature: _____ Date: 11-2-10

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74518

201012

# CERTIFIED COPY OF SEED ANALYSIS

Lot Number: AGRI -43510

Kind and Variety: SODAR - STREAMBANK WHEATGRASS

Scientific Name: ELYMUS LANCEOLATUS SSP. PSAMMOPHILUS

Pure Seed %: 98.62 Total Viable %: 97.00

Crop %: 0.00 Germination %: 97.00

Inert %: 1.12 Hard Seed %: 0.00

Weed %: 0.26 Date of Test: 09/27/2010

Pure Live Seed %: 95.66 Origin: WA

Name of Lab: NST=TZ WA=P&G

Noxious or Restricted Weeds (all 50 States):

NONE

Lot Number: FEAR2 -43597

Kind and Variety: FAWN - TALL FESCUE

Scientific Name: FESTUCA ARUNDINACEA

Pure Seed %: 99.54 Total Viable %: 95.00

Crop %: 0.06 Germination %: 95.00

Inert %: 0.40 Hard Seed %: 0.00

Weed %: 0.00 Date of Test: 01/11/2010

Pure Live Seed %: 94.56 Origin: OR

Name of Lab: NST=G NST=G

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature: _____ Date: 11-2-10

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74518

201012

CERTIFIED COPY OF SEED ANALYSIS

Lot Number: TRFR -43653

Kind and Variety: PALESTINE - STRAWBERRY CLOVER

Scientific Name: TRIFOLIUM FRAGIFERUM

Pure Seed %: 99.98 Total Viable %: 91.00

Crop %: 0.00 Germination %: 81.00

Inert %: 0.02 Hard Seed %: 10.00

Weed %: 0.00 Date of Test: 05/05/2010

Pure Live Seed %: 91.23 Origin: AUS

Name of Lab: AGRI=G STL=P&G

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature: _____ Date: 11-2-10

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74518

201012

# CERTIFIED COPY OF SEED ANALYSIS

Lot Number: PHPR -42711

Kind and Variety: VNS - CLIMAX TIMOTHY

Scientific Name: PHLEUM PRATENSE

Pure Seed %: 99.61 Total Viable %: 93.00

Crop %: 0.13 Germination %: 93.00

Inert %: 0.26 Hard Seed %: 0.00

Weed %: 0.00 Date of Test: 10/27/2010

Pure Live Seed %: 92.64 Origin: CAN

Name of Lab: NST=TZ NST=P&G

Noxious or Restricted Weeds (all 50 States):

NONE

Lot Number: ELCI -42842

Kind and Variety: MAGNAR - GREAT BASIN WILDRYE

Scientific Name: LEYMUS CINEREUS

Pure Seed %: 99.84 Total Viable %: 97.00

Crop %: 0.00 Germination %: 97.00

Inert %: 0.16 Hard Seed %: 0.00

Weed %: 0.00 Date of Test: 02/21/2010

Pure Live Seed %: 96.84 Origin: MT

Name of Lab: NST=G NST=G

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Signature: _____ Date: 11-2-10

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043

74518

201012

CERTIFIED COPY OF SEED ANALYSIS

Lot Number: BRMA -43631

Kind and Variety: BROMAR - MOUNTAIN BROMEGRASS

Scientific Name: BROMUS MARGINATUS

Pure Seed %: 99.99 Total Viable %: 69.00

Crop %: 0.00 Germination %: 69.00

Inert %: 0.01 Hard Seed %: 0.00

Weed %: 0.00 Date of Test: 03/17/2010

Pure Live Seed %: 68.99 Origin: WA

Name of Lab: WA=TZ WA=P&TZ

Noxious or Restricted Weeds (all 50 States):

NONE

Lot Number: AGSM -42560

Kind and Variety: ROSANA - WESTERN WHEATGRASS

Scientific Name: PASCOPYRUM SMITHII

Pure Seed %: 96.19 Total Viable %: 97.00

Crop %: 0.10 Germination %: 97.00

Inert %: 3.61 Hard Seed %: 0.00

Weed %: 0.10 Date of Test: 12/02/2009

Pure Live Seed %: 93.30 Origin: ID

Name of Lab: WA=P&TZ

Noxious or Restricted Weeds (all 50 States):

NONE

Granite Seed Company certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts

Signature: _____ Date: 11-2-10

74518

201012

Granite Seed Company
1697 West 2100 North
Lehi, Utah 84043
801-768-4422

DATE SHIPPED: 10/06/2010

SOLD TO:
EVANS RANGE RECLAMATION
5050 BAILEY ROAD
ARBON, ID 83212

SEED MIX NUMBER: 74518

Letter of Certification

This memo is written to certify that this seed mix is true to label and has been duly tested by a fully accredited seed testing laboratory using rules sanctioned by the Association of Official Seed Analysts. The specifications of the seed used in the mix are as follows:

| Common Name | Variety | Origin | Lot# | Purity | Germ + Dorm. | %PLS |
|---|---|---|---|---|---|---|
| MOUNTAIN BROMEGRASS | BROMAR | WA | BRMA -43631 | 99.99 | 69 | 68.99 |
| WESTERN WHEATGRASS | ROSANA | ID | AGSM -42560 | 96.19 | 97 | 93.30 |
| CLIMAX TIMOTHY | VNS | CAN | PHPR -42711 | 99.61 | 93 | 92.64 |
| GREAT BASIN WILDRYE | MAGNAR | MT | ELCI -42842 | 99.84 | 97 | 96.84 |
| STREAMBANK WHEATGRAS | SODAR | WA | AGRI -43510 | 98.62 | 97 | 95.66 |
| TALL FESCUE | FAWN | OR | FEAR2-43597 | 99.54 | 95 | 94.56 |
| STRAWBERRY CLOVER | PALESTINE | AUS | TRFR -43653 | 99.98 | 91 | 91.23 |

Furthermore, we certify that said seed was packed as follows:

| Number of Bags | Bulk Lbs. Per Bag |
|---|---|
| 18 | 18.66 |

The number of pounds and percent of bulk for this mix are as follows:

| Common Name | Lot# | Total Bulk Lbs. | Total PLS Lbs. | % Bulk Lbs. |
|---|---|---|---|---|
| MOUNTAIN BROMEGRASS | BRMA -43631 | 60.88 | 42.00 | 18.13 |
| WESTERN WHEATGRASS | AGSM -42560 | 51.45 | 48.00 | 15.32 |
| CLIMAX TIMOTHY | PHPR -42711 | 27.38 | 25.36 | 8.15 |
| GREAT BASIN WILDRYE | ELCI -42842 | 55.76 | 54.00 | 16.60 |
| STREAMBANK WHEATGRAS | AGRI -43510 | 50.18 | 48.00 | 14.94 |
| TALL FESCUE | FEAR2-43597 | 50.76 | 48.00 | 15.11 |
| STRAWBERRY CLOVER | TRFR -43653 | 39.46 | 36.00 | 11.75 |

If you have any questions, please call.

Sincerely,

Granite Seed Co.

# Blend Ticket 372402791

Not Loaded Edited

~~2000 Pacific Road~~
American Falls, ID 83211 / (208)226-2966 - Pest Lic#: Merrigan 695-694

Salesperson: ~~house~~ Lance
Date: 09/15/2010
Time: 6:26 AM
Crop: Pasture
Acre: 4.8
Placement: Broadcast
Set: AMF dry fert

CASH - 1022
PO BOX 266

AMERICAN FALLS, ID 83211
208-226-2966

Field ID: 4283/Evans
Description: Phosphate Mine
County:
Township:
Range:
Section:

No. spoils area 2.200
So. spoils area .900
Phosphoria Gulch 1.700

Comments:

| Product | EPA Registration # | Rate/Acre | Blending Units | Scale |
|---|---|---|---|---|
| 46-00-00 UREA AG [T] | | 130.000 Lbs | 620 Lbs | **620** |
| 00-00-60 MUR/GRN [T] | | 70.000 Lbs | 340 Lbs | **960** |
| SULFUR 90% [T]<br>BLACKEARTH, MINI - GRANULE COARSE [2000L] | | 20.000 Lbs<br>20.000 Lbs | 100 Lbs<br>100 Lbs | **1060**<br>**1160** |

| Lbs | N | P | K | S | SO | Ca | Mg | Zn | Fe | Mn | Cu | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Order. | 0 | 0 | 0 | | | | | | | | | |
| Blend. | 59.8 | 0 | 42 | 21.600 | | | | | | | | |
| Analys. | 24.92 | 0 | 17.5 | 9.000 | | | | | | | | |

Total Blend Weight: 1160.000

**Lbs/Acre: 240** **Lbs/Cu Ft: 54.34** **Cu Ft/Acre: 4.417** **Lbs/Batch: 1152** **Acre/Batch: 4.800**

**1 full Batches:** ☐

9-16-10 38220 1,200

Blend Ticket 372402791

**SGS American Falls**
**2836 Pacific Road**
**American Falls, ID 83211 / (208)226-2966 - Pest Lic#: Merrigan 695-694**

**Blend Ticket** **372402865**
Not Loaded Edited

CASH - 1022
PO BOX 266

AMERICAN FALLS, ID 83211
208-226-2966

Field ID: 4283/Evans
Description: Phosphate Mine
County:
Township:
Range:
Section:

Salesperson: lankforl
Date: 10/12/2010
Time: 7:51 AM
Crop: Clover-grass
Acre: 6.6
Placement: Broadcast
Set: AMF dry fert

Comments: Jerre Evans

| Product | EPA Registration # | Rate/Acre | Blending Units | Scale |
|---|---|---|---|---|
| 46-00-00 UREA AG [T] | | 130.000 Lbs | 860 Lbs | **860** |
| 00-00-60 MUR/GRN [T] | | 70.000 Lbs | 460 Lbs | **1320** |
| SULFUR 90% [T]<br>BLACKEARTH, MINI - GRANULE COARSE [2000L] | | 20.000 Lbs | 130 Lbs | **1450** |
| | | 20.000 Lbs | 130 Lbs | **1580** |

| Lbs | N | P | K | S | SO | Ca | Mg | Zn | Fe | Mn | Cu | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Order. | 0 | 0 | 0 | | | | | | | | | |
| Blend. | 59.8 | 0 | 42 | 21.600 | | | | | | | | |
| Analys. | 24.92 | 0 | 17.5 | 9.000 | | | | | | | | |

Total Blend Weight: 1580.000

**Lbs/Acre: 240** **Lbs/Cu Ft: 54.34** **Cu Ft/Acre: 4.417** **Lbs/Batch: 1584** **Acre/Batch: 6.600**

**1 full Batches:** ☐

10-12-10 38436 1660

**Blend Ticket** **372402865**

**SGS American Falls**
2836 Pacific Road
American Falls, ID 83211 / (208)226-2966 - Pest Lic#: Merrigan 695-694

**Blend Ticket** **372402835**
Invoiced Edited

CASH - 1022
PO BOX 266

AMERICAN FALLS, ID 83211
208-226-2966

Field ID: ~~4283/GeorgeT~~
Description: GeorgeTown Canyon
County:
Township:
Range:
Section:

Salesperson: lankford
Date: 09/29/2010
Time: 7:26 AM
Crop: Clover-grass
Acre: 7
Placement: Sprayed
Set: AMF dry fert

Comments:

| Product | EPA Registration # | Rate/Acre | Blending Units | Scale |
|---|---|---|---|---|
| 46-00-00 UREA AG [T] | | 137.738 Lbs | 960 Lbs | **960** |
| 00-00-60 MUR/GRN [T] | | 74.167 Lbs | 520 Lbs | **1480** |
| SULFUR 90% [T]<br>BLACKEARTH, MINI - GRANULE COARSE [2000L] | | 21.190 Lbs | 150 Lbs | **1630** |
| | | 21.190 Lbs | 150 Lbs | **1780** |
| BLENDING [T] | | 0.000 Lbs | 0.00 Lbs | **0.00** |

| Lbs | N | P | K | S | SO | Ca | Mg | Zn | Fe | Mn | Cu | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Order. | 0 | 0 | 0 | | | | | | | | | |
| Blend. | 63.36 | 0 | 44.5 | 22.885 | | | | | | | | |
| Analys. | 24.92 | 0 | 17.5 | 9.000 | | | | | | | | |

Total Blend Weight: 1780.000

**Lbs/Acre: 254** **Lbs/Cu Ft: 54.33** **Cu Ft/Acre: 4.680** **Lbs/Batch: 1780** **Acre/Batch: 7.000**

**1 full Batches:** ☐

**Blend Ticket** **372402835**

## SGS American Falls

**2836 Pacific Road**
**American Falls, ID 83211 / (208)226-2966 - Pest Lic#: Merrigan 695-694**

## Blend Ticket 372402795

Not Loaded

CASH - 1022
PO BOX 266

AMERICAN FALLS, ID 83211
208-226-2966

Field ID: 4283/PhosMine
Description: Dud Hollow
County:
Township:
Range:
Section:

Salesperson: ~~house~~ Lane
Date: 09/16/2010
Time: 9:34 AM
Crop: Clover-grass
Acre: 1.6
Placement: Broadcast
Set: AMF dry fert

Comments:

| Product | EPA Registration # | Rate/Acre | Blending Units | Scale |
|---|---|---|---|---|
| 46-00-00 UREA AG [T] | | 130.000 Lbs | 210 Lbs | **210** |
| 11-52-00 (MAP) [T] | | 65.000 Lbs | 100 Lbs | **310** |
| 00-00-60 MUR/GRN [T] | | 70.000 Lbs | 110 Lbs | **420** |
| SULFUR 90% [T] | | 20.000 Lbs | 30 Lbs | **450** |
| AGRI-PLUS, PHT [50L] | EXEMPT | 20.000 Lbs | 30 Lbs | **480** |

| Lbs | N | P | K | S | SO | Ca | Mg | Zn | Fe | Mn | Cu | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Order. | 0 | 0 | 0 | | | | | | | | | |
| Blend. | 66.95 | 33.8 | 42 | 18.000 | 1.1700 | | | | | | | |
| Analys. | 21.95 | 11.08 | 13.77 | 5.902 | .3836 | | | | | | | |

Total Blend Weight: 480.000

**Lbs/Acre: 305** **Lbs/Cu Ft: 56.93** **Cu Ft/Acre: 5.357** **Lbs/Batch: 488** **Acre/Batch: 1.600**

**1 full Batches:** ☐

9-16-10 38221 520

**Blend Ticket 372402795**

# APPENDIX C

## HARPER & LEAVITT ENGINEERING COMPACTION TESTING DATA RESULTS
## HARPER & LEAVITT ENGINEERING SIEVE DATA TESTING RESULTS
## ACZ ANALYTICAL LABORATORY TEST RESULTS
## SOIL AMENDMENT TESTING RESULTS
## CONFLUENCE REPORT

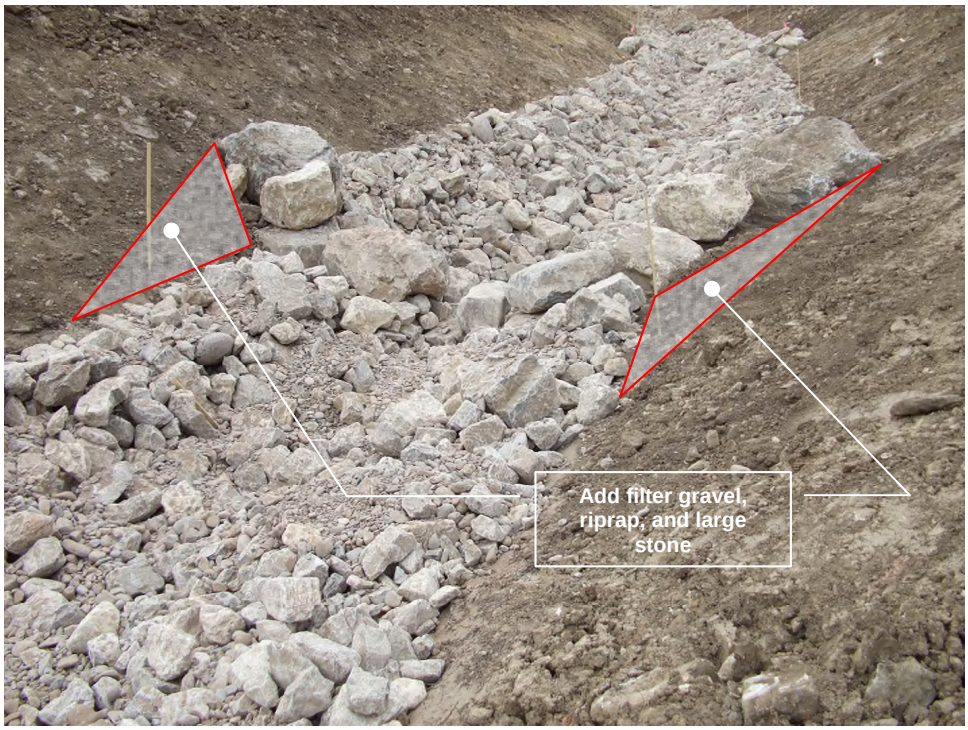
CONFLUENCE
consulting incorporated

# MEMO

**DATE:** September 9, 2010
**TO:** Kevin Ritter, Paul Kos
**FROM:** Jim Lovell
**RE:** Georgetown Canyon Weir Installation Recommendations

I observed the installation of one new weir on September 8, 2010, and inspected four other weirs that had been installed the previous week at Georgetown Canyon. Overall, the weir and stream bed installation looked good to me. I did make the following recommendations to JB Brown and the Conestoga-Rovers superintendant to improve the quality of the installation:

1. Add additional filter gravel, riprap, and large stone to the groins between the top edge of the channel and the top stones on either side of the weirs (as shown in the photo below. This will help prevent erosion of the native material on the upstream sides of the weirs.



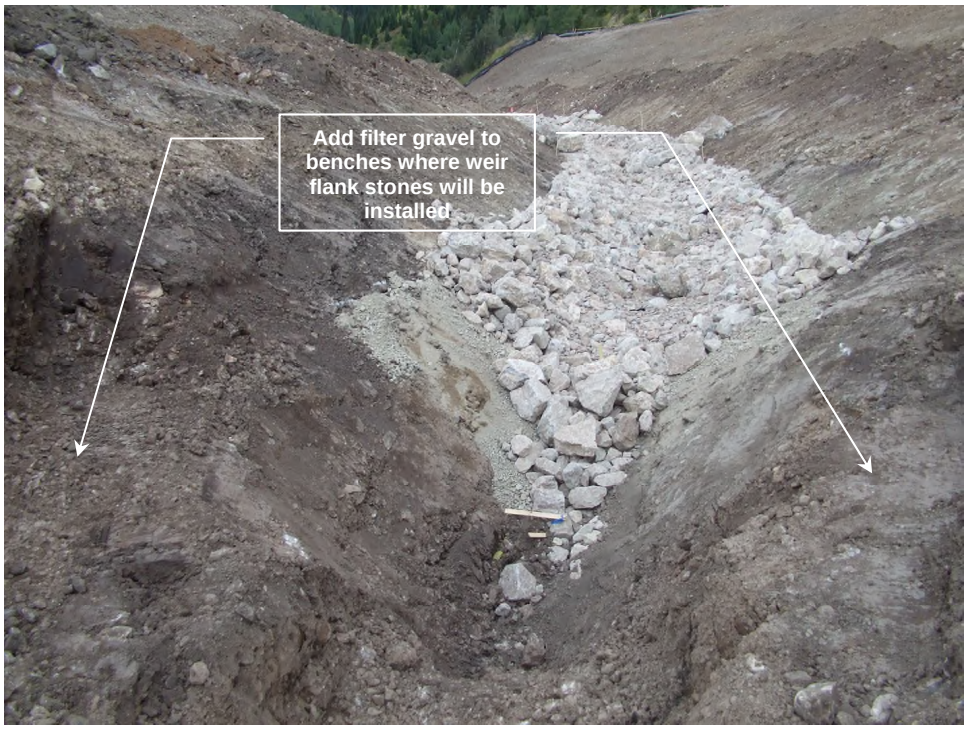

2. Add filter gravel beneath <u>all</u> weir stone, including the stones used to construct the left and right weir flanks (see photo below).

406-585-9500
fax 406-582-9142

P.O. Box 1133
1115 N. 7th Ave, Suite 1
Bozeman, MT 59771-1133

www.confluenceinc.com

GSA Contract Holder




3. Maintain the channel bankfull cross-section through each weir. The four previously installed weirs had header stones that will impede flow. These header stones should be removed on the four previously installed weirs. The weir that was installed while I was on site was constructed without these additional stones. Maintaining cross-sectional capacity through the weirs will reduce the potential for the stream to erode around the ends of the weirs.

4. Make sure the large stones in each weir are touching each adjacent large stone, leaving no gaps between the stones. This will increase the strength of the weir by locking the stones together.

HARPER-LEAVITT ENGINEERING, INC.
PROFESSIONAL ENGINEERS & LAND SURVEYORS

800 W. Judicial Street
Blackfoot, Idaho 83221
(208) 785-2977

985 N. Capital Avenue
Idaho Falls, Idaho 83405
(208) 524-0212

# EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS

ASTM D2922 & D3017 - AASHTO T238 & T239

Reviewed by: JSB

| | | |
|---|---|---|
| JOB NAME & LOCATION: Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | JOB #: 2010.075 | DATE: 06.28.2010 |
| MATERIAL SOURCE & TYPE: Dud Hollow 3" minus | GAUGE S/N: 29870 | TECH: J. Bragg |
| WEATHER: sunny 75° | SPECIFIED COMPACTION: 95 % of ASTM D698 | |
| COMMENTS: Additional moisture added and re-compacted on Test No. 6 - 12 | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 12" | 9.5 | 6.9 | 136.7 | 127.8 | 125.9 | 101.5 | Sediment Pond Road, Sta 25+60 at centerline | 2nd lift |
| 2 | 12" | 9.5 | 7.4 | 134.1 | 124.9 | 125.9 | 99.2 | Sediment Pond Road, Sta. 24+90 3' left of centerline | 2nd lift |
| 3 | 12" | 9.5 | 6.3 | 129.8 | 122.0 | 125.9 | 96.9 | Sediment Pond Road, Sta. 24+00 3' right of centerline | 2nd lift |
| 4 | 12" | 9.5 | 8.8 | 139.1 | 127.9 | 125.9 | 101.6 | Sediment Pond Road, Sta. 23+25 5' right of centerline | 2nd lift |
| 5 | 12" | 9.5 | 7.2 | 136.7 | 127.6 | 125.9 | 101.3 | Sediment Pond Road, Sta. 23+80 at centerline | 1st lift |
| 6 | 12" | 9.5 | 8.2 | 138.4 | 127.9 | 125.9 | 101.6 | Sediment Pond Road, Sta. 23+80 at centerline | 2nd lift |
| 7 | 12" | 9.5 | 12.5 | 131.5 | 116.9 | 125.9 | 92.9 | Sediment Pond Road, Sta. 23+50 3' left of centerline | 2nd lift |
| 8 | 12" | 9.5 | 9.5 | 137.9 | 126.0 | 125.9 | 100.1 | Sediment Pond Road, Sta. 23+20, 1' right of centerline | 2nd lift |
| 9 | 12" | 9.5 | 8.9 | 132.4 | 121.5 | 125.9 | 96.5 | Sediment Pond Road, Sta. 24+70 at centerline | 1st lift |
| 10 | 12" | 9.5 | 9.9 | 136.7 | 124.4 | 125.9 | 98.8 | Sediment Pond Road, Sta. 25+10 at centerline | 1st lift |
| 11 | 12" | 9.5 | 9.2 | 135.5 | 124.1 | 125.9 | 98.6 | Sediment Pond Road, Sta. 25+50 at Keyway | Top of Keyway |
| 12 | 12" | 9.5 | 9.9 | 139.2 | 126.7 | 125.9 | 100.6 | Sediment Pond Road, Sta. 25+80 at Keyway | Top of Keyway |

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Idaho Falls, Idaho 83405
(208) 524-0212

# EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS

ASTM D2922 & D3017 - AASHTO T238 & T239

Reviewed by: JSB

| | | |
|---|---|---|
| JOB NAME & LOCATION: Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | JOB #: 2010.075 | DATE: 06.30.2010 |
| MATERIAL SOURCE & TYPE: Dud Hollow 3" minus | GAUGE S/N: 29870 | TECH: J. Bragg |
| WEATHER: sunny 90° | SPECIFIED COMPACTION: 95 % of ASTM D698 | |
| COMMENTS: | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 12" | 9.5 | 9.1 | 141.6 | 129.8 | 125.9 | 103.1 | Sediment Pond Road, Sta 22+00 7' right of centerline | Lift 2.5' |
| 2 | 12" | 9.5 | 9.7 | 143.7 | 131.0 | 125.9 | 104.0 | Sediment Pond Road, Sta. 23+00 at centerline | Lift 2.5' |
| 3 | 12" | 9.5 | 9.6 | 138.1 | 126.0 | 125.9 | 100.1 | Sediment Pond Road, Sta. 24+00 10' right of centerline | Lift 2.5' |
| 4 | 12" | 9.5 | 9.0 | 135.6 | 124.4 | 125.9 | 98.8 | Sediment Pond Road, Sta. 25+00 at centerline | Lift 2.5' |
| 5 | 12" | 9.5 | 7.7 | 132.7 | 123.2 | 125.9 | 97.9 | Sediment Pond Road, Sta. 25+50 5' left of centerline | Lift 2.5' |
| 6 | 12" | 9.5 | 9.7 | 139.9 | 127.5 | 125.9 | 101.3 | Sediment Pond Road, Sta. 26+00 at centerline | Lift 2.5' |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |

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# EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS

ASTM D2922 & D3017 - AASHTO T238 & T239

Reviewed by: JSB

| | | |
|---|---|---|
| JOB NAME & LOCATION: Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | JOB #: 2010.075 | DATE: 07.07.2010 |
| MATERIAL SOURCE & TYPE: Dud Hollow 3" minus | GAUGE S/N: 29870 | TECH: J. Bragg |
| WEATHER: sunny | SPECIFIED COMPACTION: 95 % of ASTM D698 | |
| COMMENTS: Lift 4 Sediment Pond | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6" | 9.5 | 6.8 | 140.2 | 131.2 | 125.9 | 104.2 | Sediment Pond Road, Sta 24+06 | Lift 4 |
| 2 | 10" | 9.5 | 8.9 | 139.8 | 128.3 | 125.9 | 101.9 | Sediment Pond Road, Sta. 24+80 | Lift 4 |
| 3 | 6" | 9.5 | 10.4 | 132.1 | 119.6 | 125.9 | 95.0 | Sediment Pond Road, Sta. 25+30 | Lift 4 |
| 4 | 10" | 9.5 | 7.9 | 136.1 | 126.2 | 125.9 | 100.2 | Sediment Pond Road, Sta. 25+80 | Lift 4 |
| 5 | 10" | 9.5 | 8.4 | 139.7 | 128.8 | 125.9 | 102.3 | Sediment Pond Road, Sta. 26+25 | Lift 4 |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |

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Idaho Falls, Idaho 83405
(208) 524-0212

# EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS

ASTM D2922 & D3017 - AASHTO T238 & T239

Reviewed by: JSB

| | | |
|---|---|---|
| JOB NAME & LOCATION: Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | JOB #: 2010.075 | DATE: 07.08.2010 |
| MATERIAL SOURCE & TYPE: Dud Hollow 3" minus | GAUGE S/N: 29870 | TECH: L.Jolley |
| WEATHER: sunny | SPECIFIED COMPACTION: 95 % of ASTM D698 | |
| COMMENTS: Lift 5 Sediment Pond | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 12" | 9.5 | 9.6 | 132.1 | 120.6 | 125.9 | 95.8 | Sediment Pond Road, Sta 24+50 | Lift 5 |
| 2 | 12" | 9.5 | 9.2 | 137.8 | 126.1 | 125.9 | 100.2 | Sediment Pond Road, Sta. 25+25 | Lift 5 |
| 3 | 12" | 9.5 | 8.9 | 140.7 | 129.2 | 125.9 | 102.6 | Sediment Pond Road, Sta. 26+00 | Lift 5 |
| 4 | 12" | 9.5 | 9.0 | 140.7 | 129.2 | 125.9 | 101.8 | Sediment Pond Road, Sta. 26+70 | Lift 5 |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |

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**EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS**
ASTM D2922 & D3017 - AASHTO T238 & T239

Reviewed by: JSB

| | | |
|---|---|---|
| JOB NAME & LOCATION: Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | JOB #: 2010.075 | DATE: 07.09.2010 |
| MATERIAL SOURCE & TYPE: Dud Hollow 3" minus | GAUGE S/N: 29870 | TECH: L.Jolley |
| WEATHER: sunny | SPECIFIED COMPACTION: 95 % of ASTM D698 | |
| COMMENTS: Lift 6 Sediment Pond | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 10" | 9.5 | 8.6 | 134.9 | 124.2 | 125.9 | 98.7 | Sediment Pond Road, Sta 22+00 | Lift 6 |
| 2 | 10" | 9.5 | 9.7 | 134.0 | 122.2 | 125.9 | 97.1 | Sediment Pond Road, Sta. 23+00 | Lift 6 |
| 3 | 10" | 9.5 | 10.1 | 141.3 | 128.3 | 125.9 | 101.9 | Sediment Pond Road, Sta. 23+50 | Lift 6 |
| 4 | 10" | 9.5 | 9.9 | 140.0 | 127.4 | 125.9 | 101.2 | Sediment Pond Road, Sta. 24+00 | Lift 6 |
| 5 | 10" | 9.5 | 8.5 | 137.9 | 127.1 | 125.9 | 101.0 | Sediment Pond Road Sta. 24+90 | Lift 6 |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |

HARPER-LEAVITT ENGINEERING, INC.
PROFESSIONAL ENGINEERS & LAND SURVEYORS

800 W. Judicial Street
Blackfoot, Idaho 83221
(208) 785-2977

985 N. Capital Avenue
Idaho Falls, Idaho 83405
(208) 524-0212

# EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS

ASTM D2922 & D3017 - AASHTO T238 & T239

Reviewed by: JSB

| | | |
|---|---|---|
| JOB NAME & LOCATION: Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | JOB #: 2010.075 | DATE: 07.13.2010 |
| MATERIAL SOURCE & TYPE: Dud Hollow 3" minus | GAUGE S/N: 29870 | TECH: L.Jolley |
| WEATHER: sunny | SPECIFIED COMPACTION: 95 % of ASTM D698 | |
| COMMENTS: Lift 7 and Lift 8 Sediment Pond | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 10" | 9.5 | 8.7 | 137.1 | 126.2 | 125.9 | 100.2 | Sediment Pond Road, Sta 23+60 | Lift 7 |
| 2 | 10" | 9.5 | 7.7 | 138.2 | 128.3 | 125.9 | 101.9 | Sediment Pond Road, Sta. 24+50 | Lift 7 |
| 3 | 10" | 9.5 | 7.9 | 140.1 | 129.9 | 125.9 | 103.2 | Sediment Pond Road, Sta. 25+50 | Lift 7 |
| 4 | 10" | 9.5 | 10.0 | 131.1 | 119.1 | 125.9 | 94.6 | Sediment Pond Road, Sta. 26+50 | Lift 7 |
| 5 | 10" | 9.5 | 7.8 | 140.6 | 130.4 | 125.9 | 103.6 | Sediment Pond Road Sta. 27+00 | Lift 8 |
| 6 | 10" | 9.5 | 8.6 | 134.1 | 123.5 | 125.9 | 98.1 | Sediment Pond Road Sta. 25+80 | Lift 8 |
| 7 | 10" | 9.5 | 8.5 | 131.3 | 121.0 | 125.9 | 96.1 | Sediment Pond Road Sta. 24+80 | Lift 8 |
| 8 | 10" | 9.5 | 9.1 | 138.1 | 126.6 | 125.9 | 100.5 | Sediment Pond Road Sta. 24+00 | Lift 8 |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |

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(208) 524-0212

# EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS

ASTM D2922 & D3017 - AASHTO T238 & T239

Reviewed by: JSB

| | | |
|---|---|---|
| JOB NAME & LOCATION: Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | JOB #: 2010.075 | DATE: 07.22.2010 |
| MATERIAL SOURCE & TYPE: Dud Hollow 3" minus | GAUGE S/N: 29870 | TECH: L.Jolley |
| WEATHER: sunny | SPECIFIED COMPACTION: 95 % of ASTM D698 | |
| COMMENTS: Sediment Pond Road | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 10" | 9.5 | 8.7 | 130.3 | 119.8 | 125.9 | 95.2 | South Berm | Lift 1 |
| 2 | 10" | 9.5 | 8.6 | 135.3 | 124.6 | 125.9 | 98.9 | Sediment Pond Road, Sta. 26+00 | Lift 8 |
| 3 | 10" | 9.5 | 8.6 | 136.3 | 125.4 | 125.9 | 99.6 | Sediment Pond Road, Sta. 25+60 | Lift 8 |
| 4 | 10" | 9.5 | 8.1 | 137.1 | 126.8 | 125.9 | 100.7 | Sediment Pond Road, Sta. 25+00 | Lift 8 |
| 5 | 10" | 9.5 | 8.6 | 133.1 | 122.5 | 125.9 | 97.3 | Sediment Pond Road Sta. 24+50 | Lift 8 |
| 6 | 10" | 9.5 | 8.2 | 132.9 | 122.9 | 125.9 | 97.6 | Sediment Pond Road Sta. 22+50 | Lift 8 |
| 7 | 10" | 9.5 | 5.9 | 136.8 | 129.2 | 125.9 | 102.6 | Sediment Pond Road Sta. 22+00 | Lift 8 |
| 8 | 10" | 9.5 | 7.7 | 131.6 | 122.2 | 125.9 | 97.0 | South Berm | Lift 2 |
| 9 | 10" | 9.5 | 8.6 | 137.7 | 126.8 | 125.9 | 100.7 | Sediment Pond Road Station 26+00 | Lift 9 |
| 10 | 10" | 9.5 | 8.0 | 142.1 | 131.5 | 125.9 | 104.5 | Sediment Pond Road Station 25+00 | Lift 9 |
| 11 | 10" | 9.5 | 9.1 | 137.8 | 126.2 | 125.9 | 100.3 | Sediment Pond Road Station 24+00 | Lift 9 |
| 12 | 10" | 9.5 | 7.8 | 136.7 | 126.8 | 125.9 | 100.7 | Sediment Pond Road Station 23+00 | Lift 9 |

## EARTHWORK OBSERVATIONS AND DENSITY TEST RESULTS

ASTM D2922 & D3017 - AASHTO T238 & T239



| JOB NAME & LOCATION: : | JOB #: 2010.075 | DATE: 07.22.2010 |
|---|---|---|
| Central Farmers Fertilizer Facility, Georgetown Canyon, Idaho | | |

| Test No. | Probe Depth | Opt. Moist. | Moist. % | Wet Dens. | Dry Dens. | Proct./ Marsh. | Relative Comp.% | Location | Elevation |
|---|---|---|---|---|---|---|---|---|---|
| 13 | 10" | 9.5 | 6.9 | 137.5 | 128.6 | 125.9 | 102.1 | Sediment Pond Road Station 22+00 | Lift 9 |
| 14 | 10" | 9.5 | 8.0 | 135.7 | 125.7 | 125.9 | 99.8 | Sediment Pond Road Station 26+00 | Lift 10 |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |

## Particle-Size Analysis of Soils

(ASTM D422)

IGES © IGES 2004

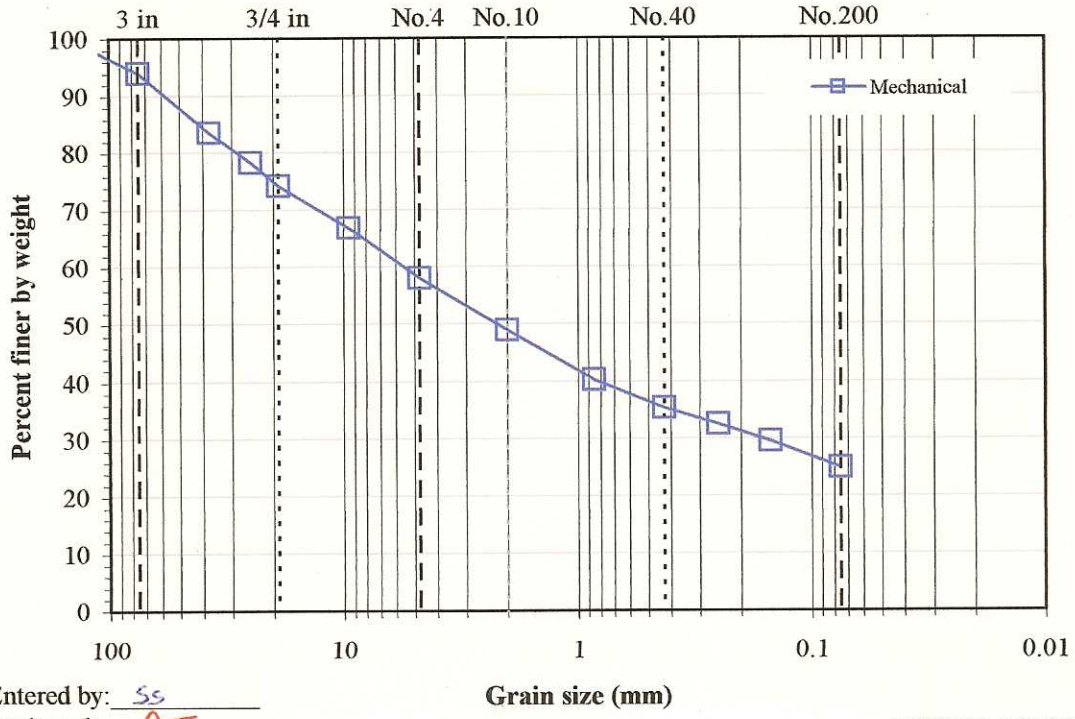
**Project:** Global Engineering
**No:** M00596-003
Location: _
Date: 11/10/2005
By: SS

**Boring No.:** _
**Sample:** CVM-2
**Depth:** _
Description: Not requested

| | | |
|---|---|---|
| Split: | Yes | |
| Split sieve: | 3/4" | |
| | Moist | Dry |
| Total sample wt. (g): | 53484.5 | 50143.0 |
| +3/4" Coarse fraction (g): | 13199.8 | 12956.9 |
| -3/4" Split fraction (g): | 1582.2 | 1460.50 |
| Split fraction: | 0.742 | |

| Moisture data | C.F.(+3/4") | S.F.(-3/4") |
|---|---|---|
| Moist soil + tare (g): | 625.20 | 1991.10 |
| Dry soil + tare (g): | 616.28 | 1869.40 |
| Tare (g): | 140.40 | 408.90 |
| Moisture content (%): | 1.9 | 8.3 |

| Sieve | Accum. Wt. Ret. (g) | Grain Size (mm) | Percent Finer | |
|---|---|---|---|---|
| 12" | - | 300 | - | |
| 8" | - | 200 | - | |
| 6" | - | 150 | 100.0 | |
| 3" | 3006.28 | 75 | 94.0 | |
| 1.5" | 8282.14 | 37.5 | 83.5 | |
| 1" | 10921.39 | 25 | 78.2 | |
| 3/4" | 12953.68 | 19 | 74.2 | <=Split |
| 3/8" | 143.60 | 9.5 | 66.9 | |
| No.4 | 316.80 | 4.75 | 58.1 | |
| No.10 | 496.30 | 2 | 49.0 | |
| No.20 | 666.30 | 0.85 | 40.3 | |
| No.40 | 763.50 | 0.425 | 35.4 | |
| No.60 | 820.20 | 0.25 | 32.5 | |
| No.100 | 878.40 | 0.15 | 29.6 | |
| No.200 | 970.30 | 0.075 | 24.9 | |

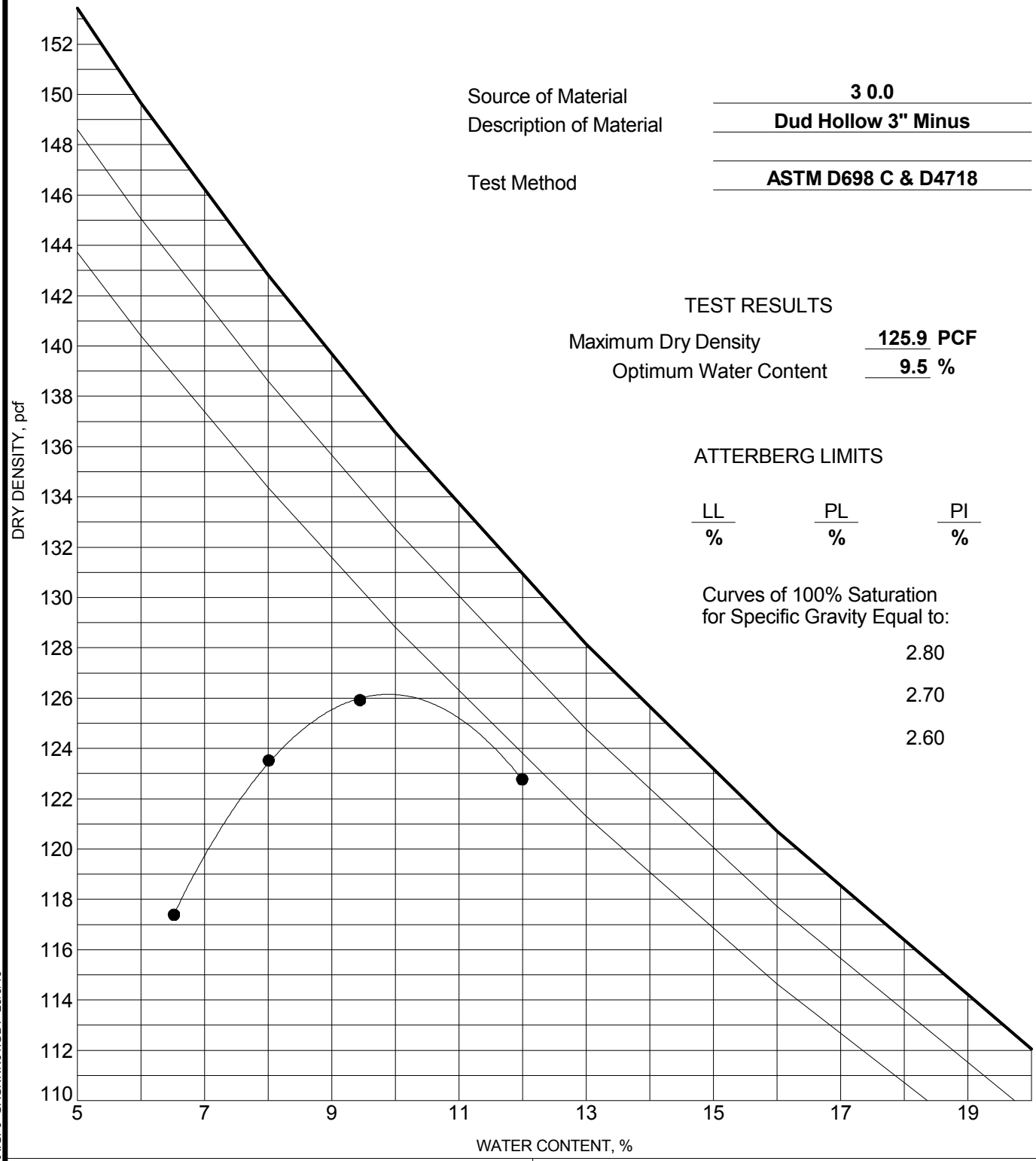



Entered by: SS
Reviewed: DJS

L:\PROJECTS_2005\M00596_Global_Engineering\003\[GSDv1.xls]1

Job No. 2010-075 Date 6/23/10

Project CRA Georgetown Mine




Source of Material **3 0.0**

Description of Material **Dud Hollow 3" Minus**

Test Method **ASTM D698 C & D4718**

TEST RESULTS

Maximum Dry Density **125.9** **PCF**

Optimum Water Content **9.5** **%**

ATTERBERG LIMITS

| LL | PL | PI |
|---|---|---|
| % | % | % |

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

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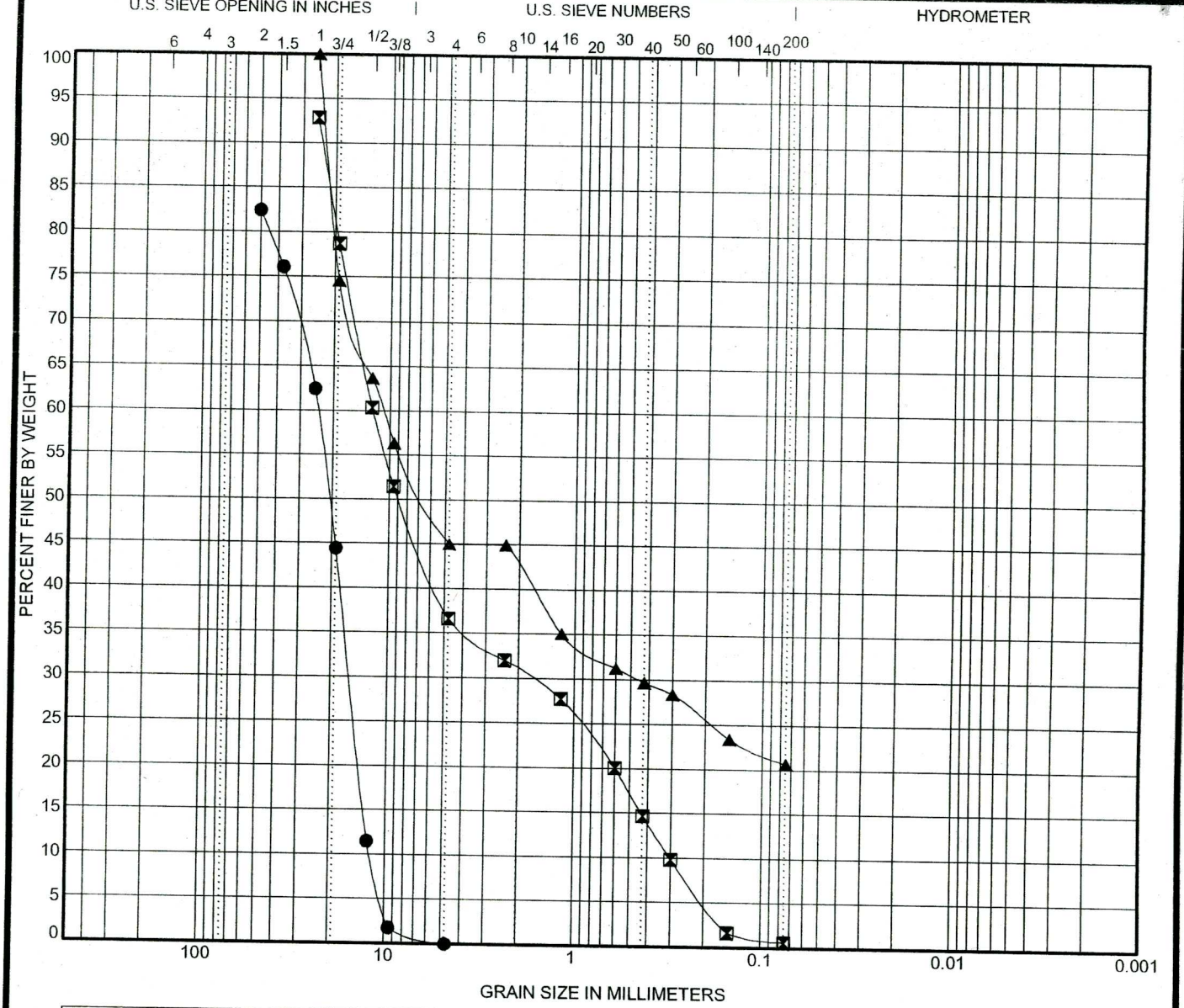
Idaho Falls, Idaho, 83405
Telephone: 208-524-0212
Fax: 208-524-0229

# MOISTURE-DENSITY RELATIONSHIP

Project: 10-075 CRA Georgetown

Location: Georgetown Mine

Number:




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | Specimen Identification | | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | 1 | **Filter Rock** | **Well Graded Gravel GW** | | | | **0.87** | **2.01** |
| ⊠ | 2 | **Road Base** | **POORLY GRADED GRAVEL with SAND GP** | | | | **0.77** | **40.69** |
| ▲ | 3 | **3" Minus** | GC- GM with Sand | | | | | |

| | Specimen Identification | | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 1 | **Filter Rock** | **50** | **24.081** | **15.818** | **11.987** | **82.4** | | | |
| ⊠ | 2 | **Road Base** | **25** | **12.355** | **1.705** | **-0.304** | **56.2** | **36.0** | **0.6** | |
| ▲ | 3 | **3" Minus** | **25** | **10.895** | **0.456** | | **55.0** | **24.3** | **20.7** | |

# GRAIN SIZE DISTRIBUTION

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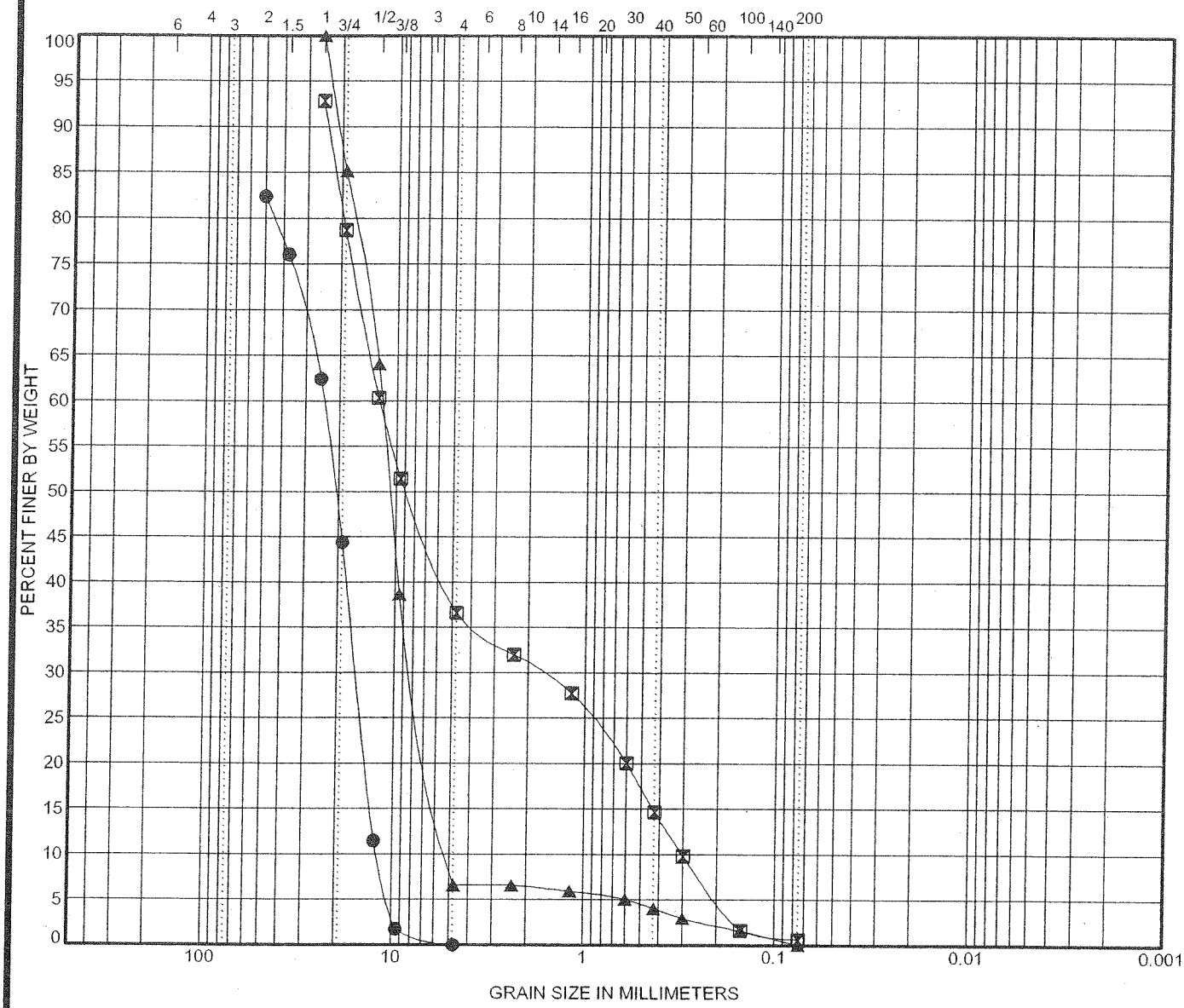


| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | Specimen Identification | | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | 1 | **Filter Rock** | **GRAVEL** | | | | **0.87** | **2.01** |
| ⊠ | 2 | **Road Base** | **POORLY GRADED GRAVEL with SAND GP** | | | | **0.77** | **40.69** |
| ▲ | 3 | **3" Minus** | **POORLY GRADED GRAVEL GP** | | | | **1.02** | **2.34** |

| | Specimen Identification | | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 1 | **0.0** | **50** | **24.081** | **15.818** | **11.987** | **82.4** | | | |
| ⊠ | 2 | **0.0** | **25** | **12.355** | **1.705** | **0.304** | **56.2** | **36.0** | **0.6** | |
| ▲ | 3 | **0.0** | **25** | **11.964** | **7.883** | **5.114** | **93.4** | **6.6** | **0.0** | |

# GRAIN SIZE DISTRIBUTION

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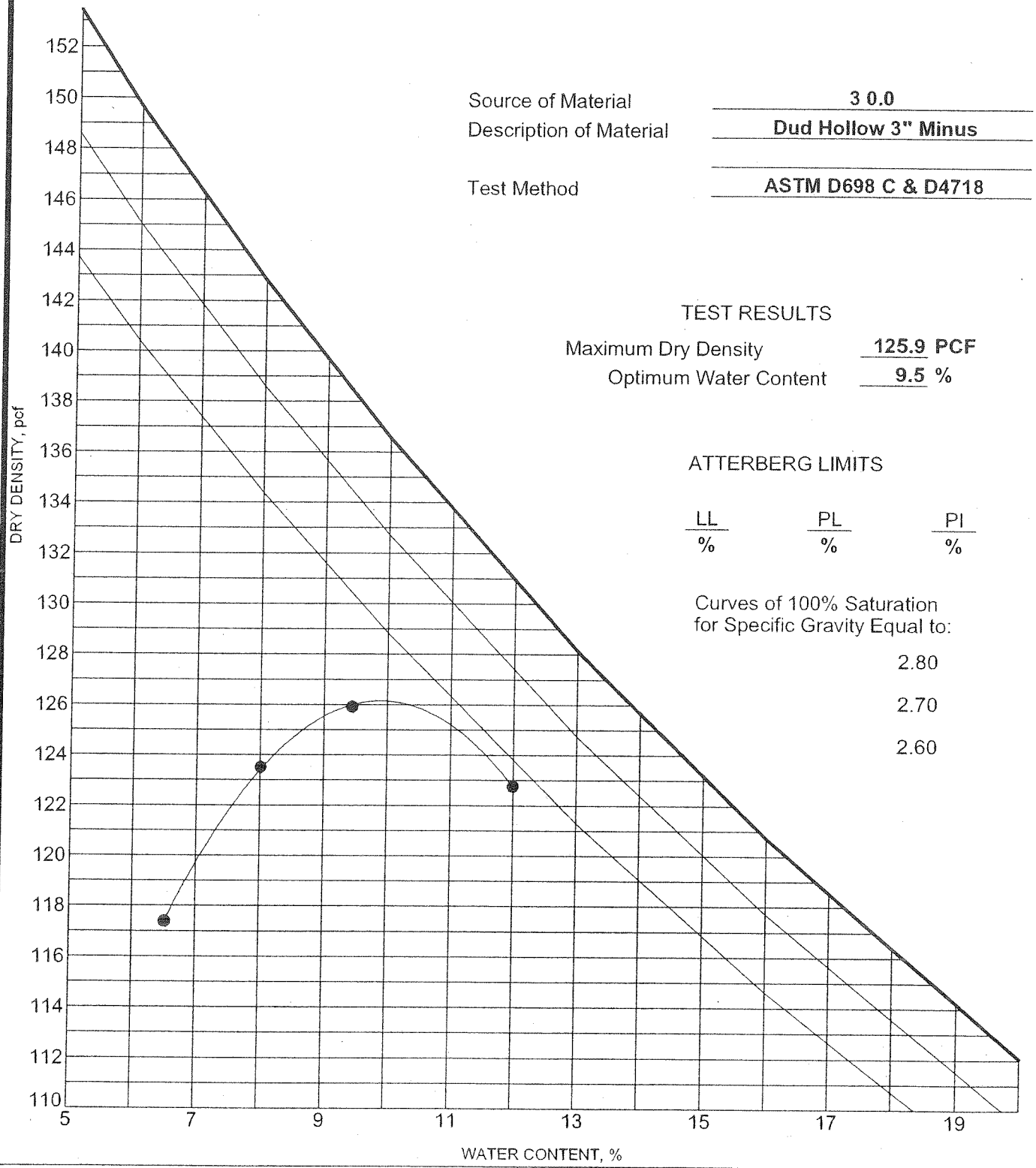
Job No. 2010-075 Date 6/23/10

Project CRA Georgetown Mine




Source of Material 3 0.0

Description of Material Dud Hollow 3" Minus

Test Method ASTM D698 C & D4718

TEST RESULTS

Maximum Dry Density 125.9 PCF

Optimum Water Content 9.5 %

ATTERBERG LIMITS

| LL | PL | PI |
|---|---|---|
| % | % | % |

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

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985 No. Capital Ave.
Idaho Falls, Idaho, 83405
Telephone: 208-524-0212
Fax: 208-524-0229

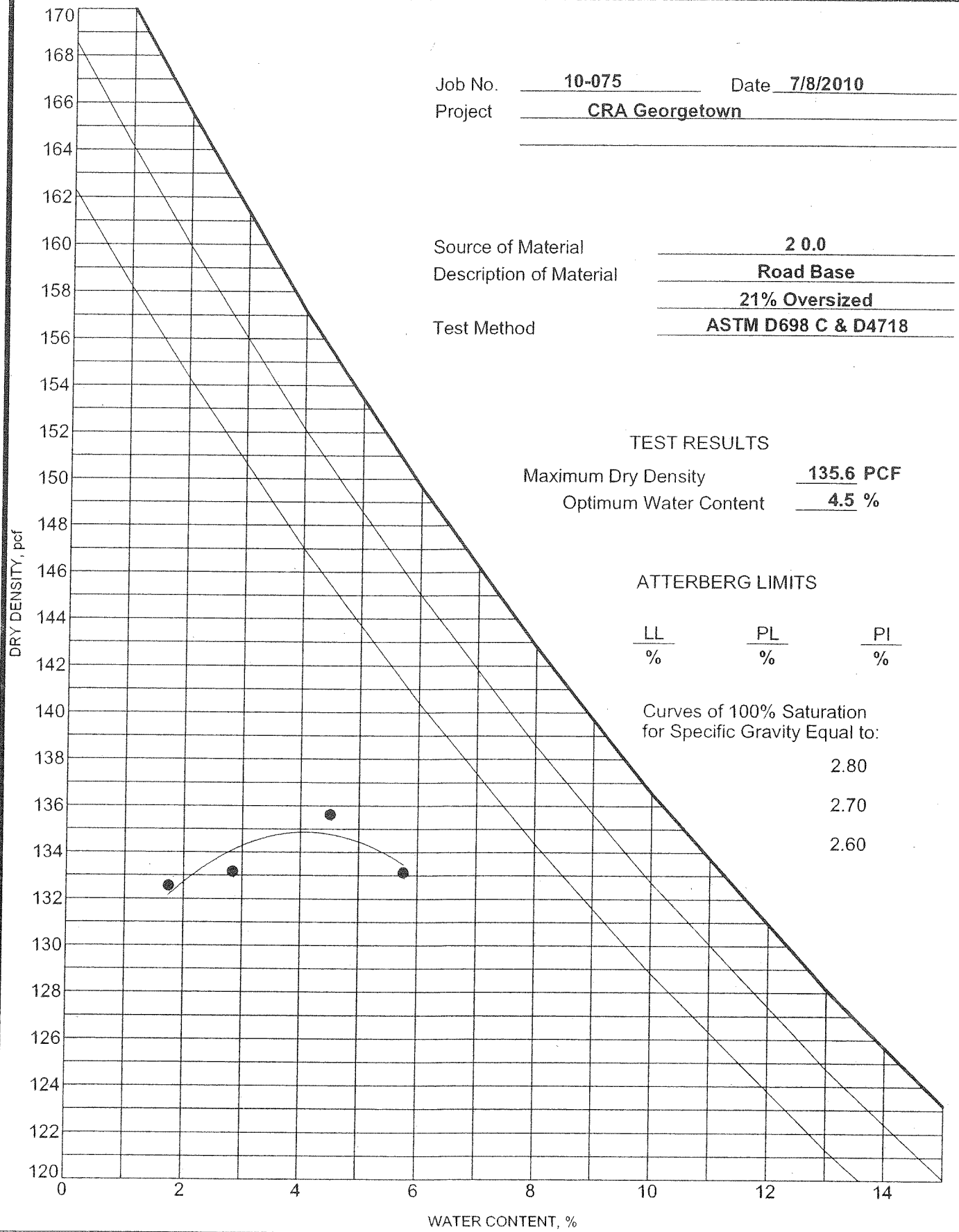
## MOISTURE-DENSITY RELATIONSHIP

Project: 10-075 CRA Georgetown

Location: Georgetown Mine

Number:

GAGNNN01 2010.075 CRA.GPJ GAGNNN01.GDT 23/6/10




Job No. 10-075 Date 7/8/2010

Project CRA Georgetown

Source of Material 2 0.0

Description of Material Road Base

21% Oversized

Test Method ASTM D698 C & D4718

TEST RESULTS

Maximum Dry Density 135.6 PCF

Optimum Water Content 4.5 %

ATTERBERG LIMITS

| LL | PL | PI |
|---|---|---|
| % | % | % |

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

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Fax: 208-524-0229

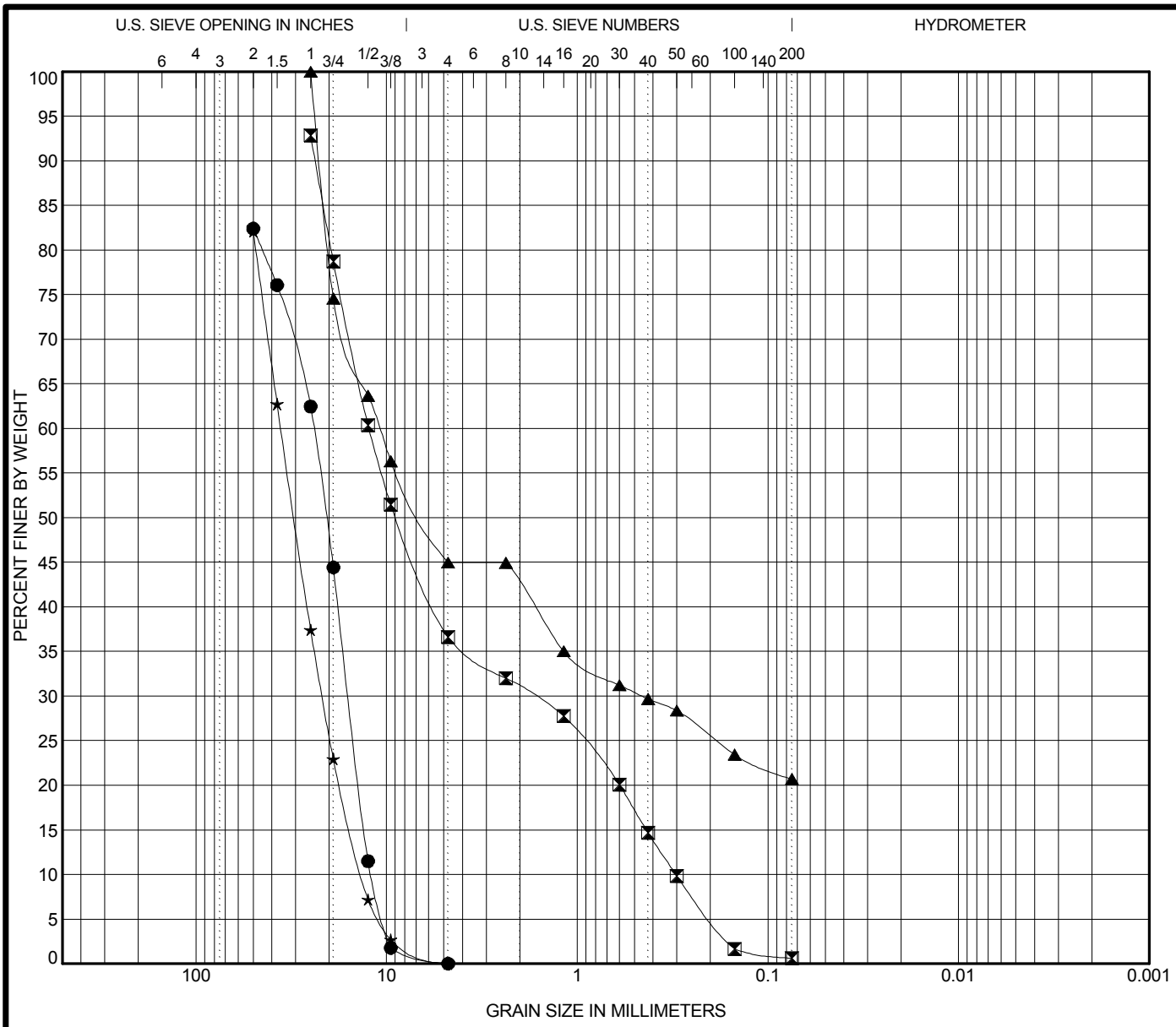
# MOISTURE-DENSITY RELATIONSHIP

Project: 10-075 CRA Georgetown

Location: Georgetown Mine

Number:

GAGNINN01 2010.075 CRA.GPJ GAGNINN01.GDT 8/7/10




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | Specimen Identification | | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | 1 | **Old Filter Rock** | **Well Graded Gravel Gw** | | | | **0.87** | **2.01** |
| ⊠ | 2 | **Road Base** | **POORLY GRADED GRAVEL with SAND GP** | | | | **0.77** | **40.69** |
| ▲ | 3 | **3" Minus** | **GM** | | | | | |
| ★ | 4 | **New Filter Rock** | **Well Graded Gravel Gw** | | | | **0.98** | **2.66** |

| | Specimen Identification | | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 1 | **0.0** | **50** | **24.081** | **15.818** | **11.987** | **82.4** | | | |
| ⊠ | 2 | **0.0** | **25** | **12.355** | **1.705** | **0.304** | **56.2** | **36.0** | **0.6** | |
| ▲ | 3 | **0.0** | **25** | **10.895** | **0.456** | | **55.0** | **24.3** | **20.7** | |
| ★ | 4 | **0.0** | **50** | **35.888** | **21.717** | **13.472** | **82.1** | | | |

# GRAIN SIZE DISTRIBUTION

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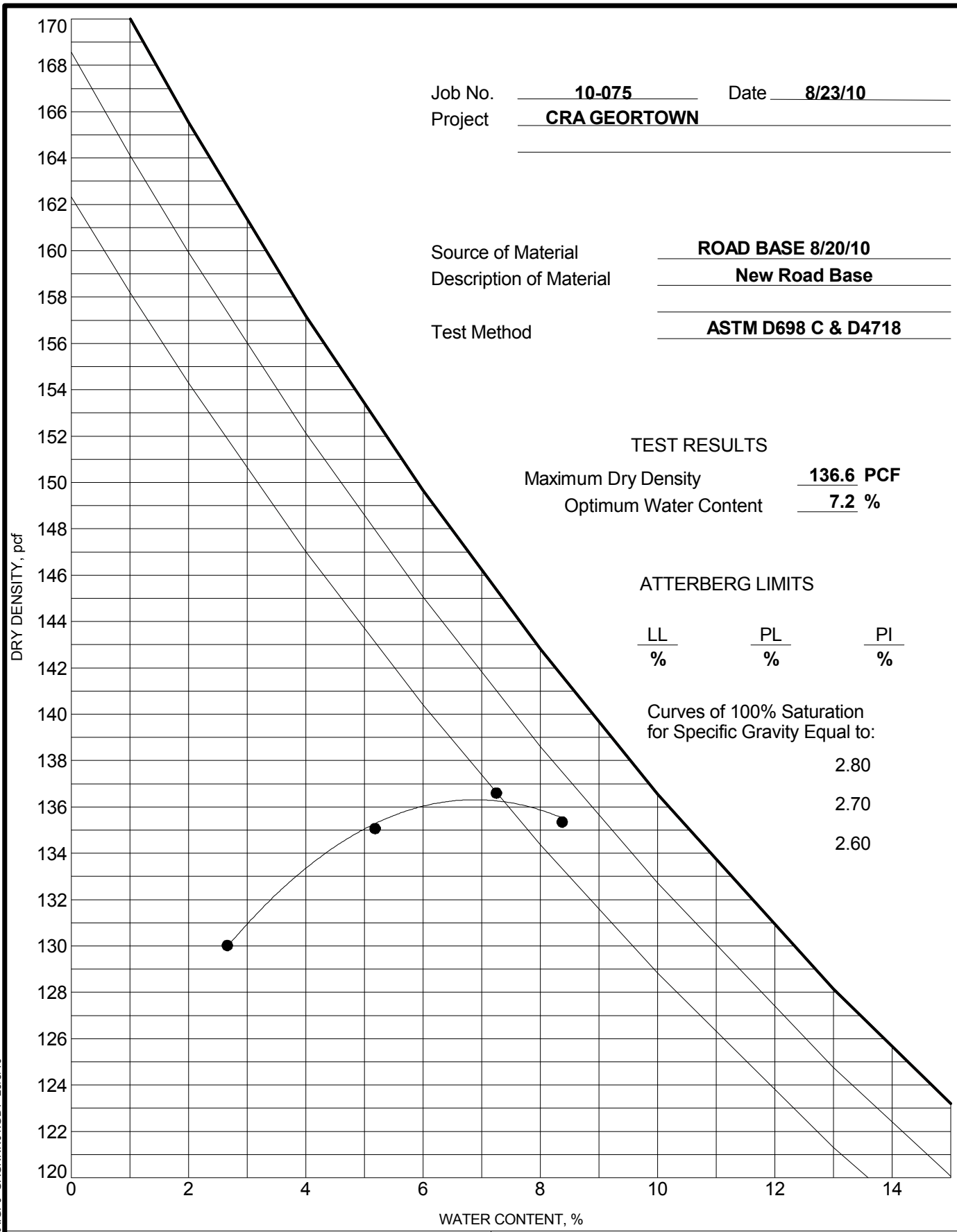


Job No. **10-075** Date **8/23/10**

Project **CRA GEORTOWN**

Source of Material **ROAD BASE 8/20/10**

Description of Material **New Road Base**

Test Method **ASTM D698 C & D4718**

TEST RESULTS

Maximum Dry Density **136.6** **PCF**

Optimum Water Content **7.2** **%**

ATTERBERG LIMITS

| LL | PL | PI |
|---|---|---|
| % | % | % |

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

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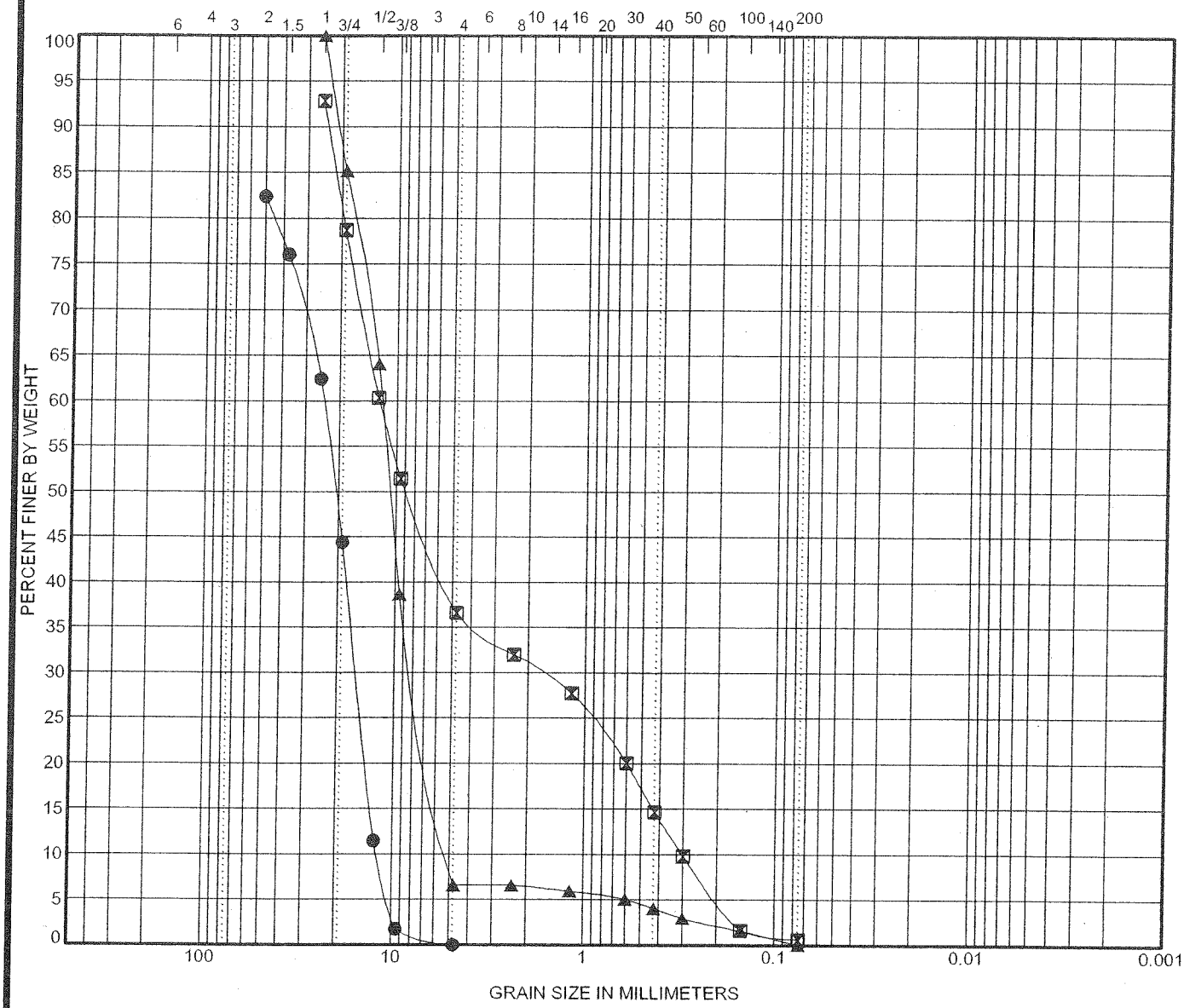
Idaho Falls, Idaho, 83405
Telephone: 208-524-0212
Fax: 208-524-0229

# MOISTURE-DENSITY RELATIONSHIP

Project: 10-075 CRA Georgetown

Location: Georgetown Mine

Number:




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | Specimen Identification | | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | 1 | **Filter Rock** | **GRAVEL** | | | | **0.87** | **2.01** |
| ⊠ | 2 | **Road Base** | **POORLY GRADED GRAVEL with SAND GP** | | | | **0.77** | **40.69** |
| ▲ | 3 | **3" Minus** | **POORLY GRADED GRAVEL GP** | | | | **1.02** | **2.34** |

| | Specimen Identification | | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 1 | **0.0** | **50** | **24.081** | **15.818** | **11.987** | **82.4** | | | |
| ⊠ | 2 | **0.0** | **25** | **12.355** | **1.705** | **0.304** | **56.2** | **36.0** | **0.6** | |
| ▲ | 3 | **0.0** | **25** | **11.964** | **7.883** | **5.114** | **93.4** | **6.6** | **0.0** | |

# GRAIN SIZE DISTRIBUTION

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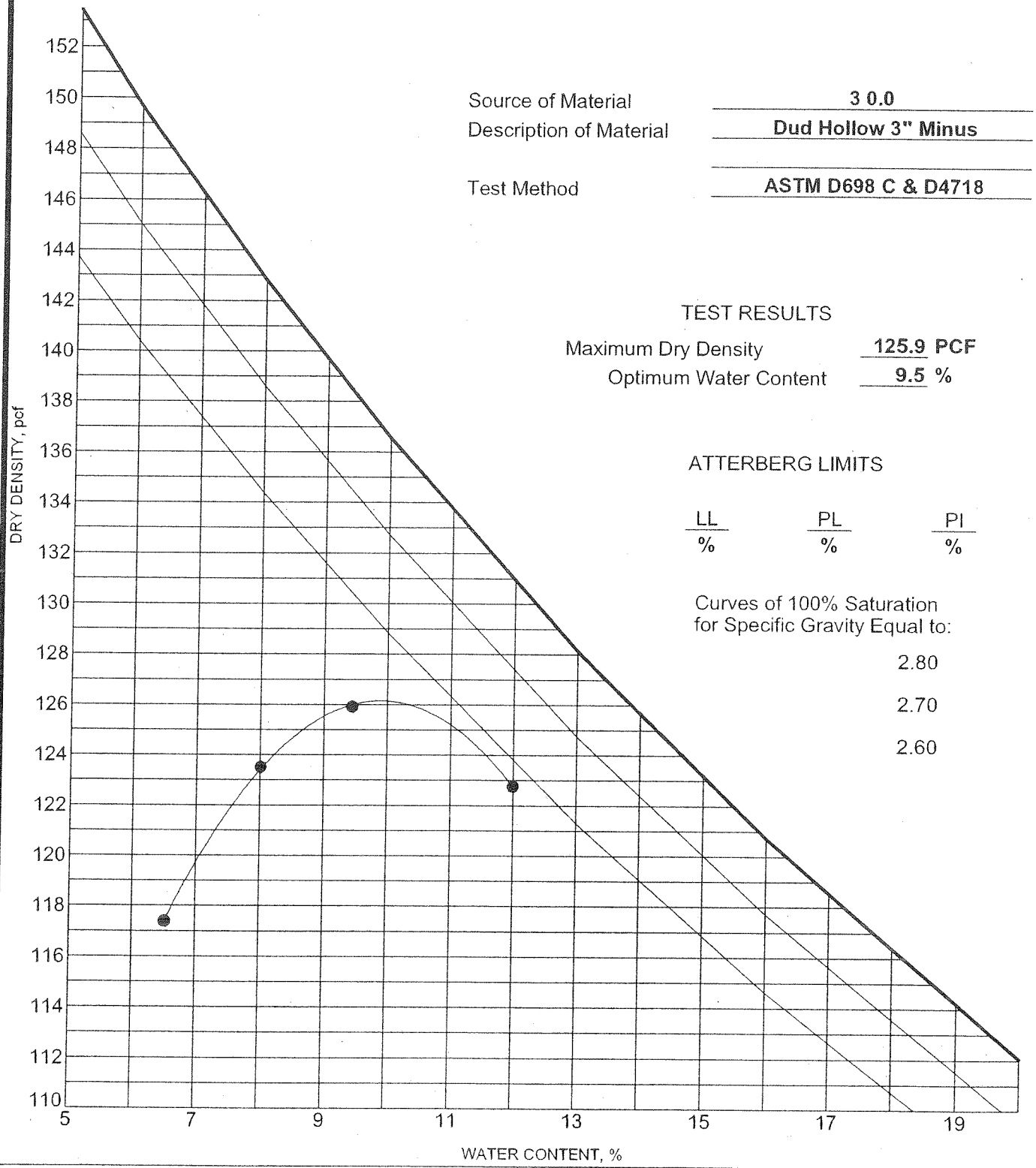
Job No. 2010-075 Date 6/23/10

Project CRA Georgetown Mine




Source of Material 3 0.0

Description of Material Dud Hollow 3" Minus

Test Method ASTM D698 C & D4718

TEST RESULTS

Maximum Dry Density 125.9 PCF

Optimum Water Content 9.5 %

ATTERBERG LIMITS

| LL | PL | PI |
|---|---|---|
| % | % | % |

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

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Fax: 208-524-0229

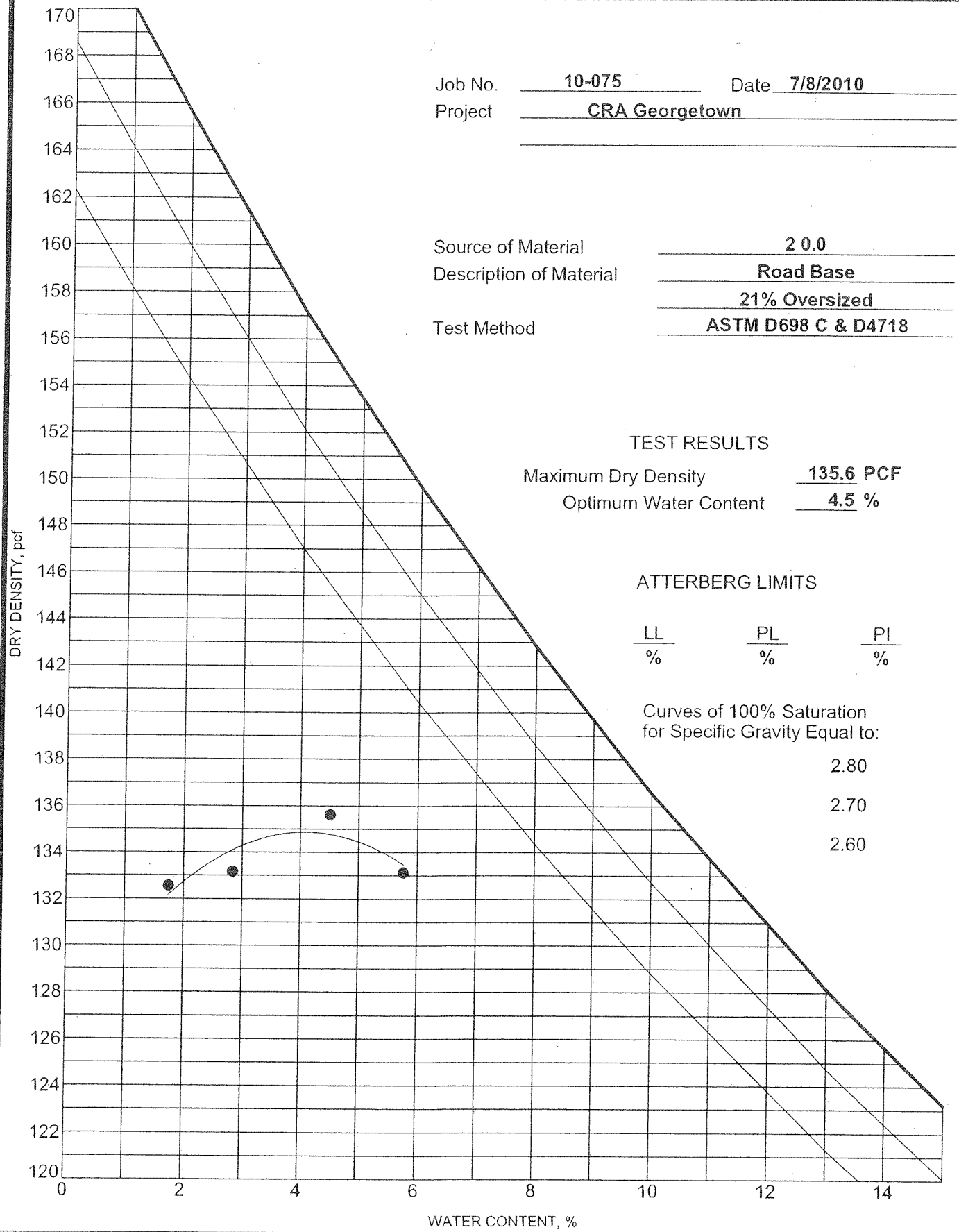
## MOISTURE-DENSITY RELATIONSHIP

Project: 10-075 CRA Georgetown

Location: Georgetown Mine

Number:

GAGNNN01 2010.075 CRA.GPJ GAGNNN01.GDT 23/6/10




Job No. 10-075 Date 7/8/2010

Project CRA Georgetown

Source of Material 2 0.0

Description of Material Road Base

21% Oversized

Test Method ASTM D698 C & D4718

TEST RESULTS

Maximum Dry Density 135.6 PCF

Optimum Water Content 4.5 %

ATTERBERG LIMITS

| LL | PL | PI |
|---|---|---|
| % | % | % |

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

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Telephone: 208-524-0212
Fax: 208-524-0229

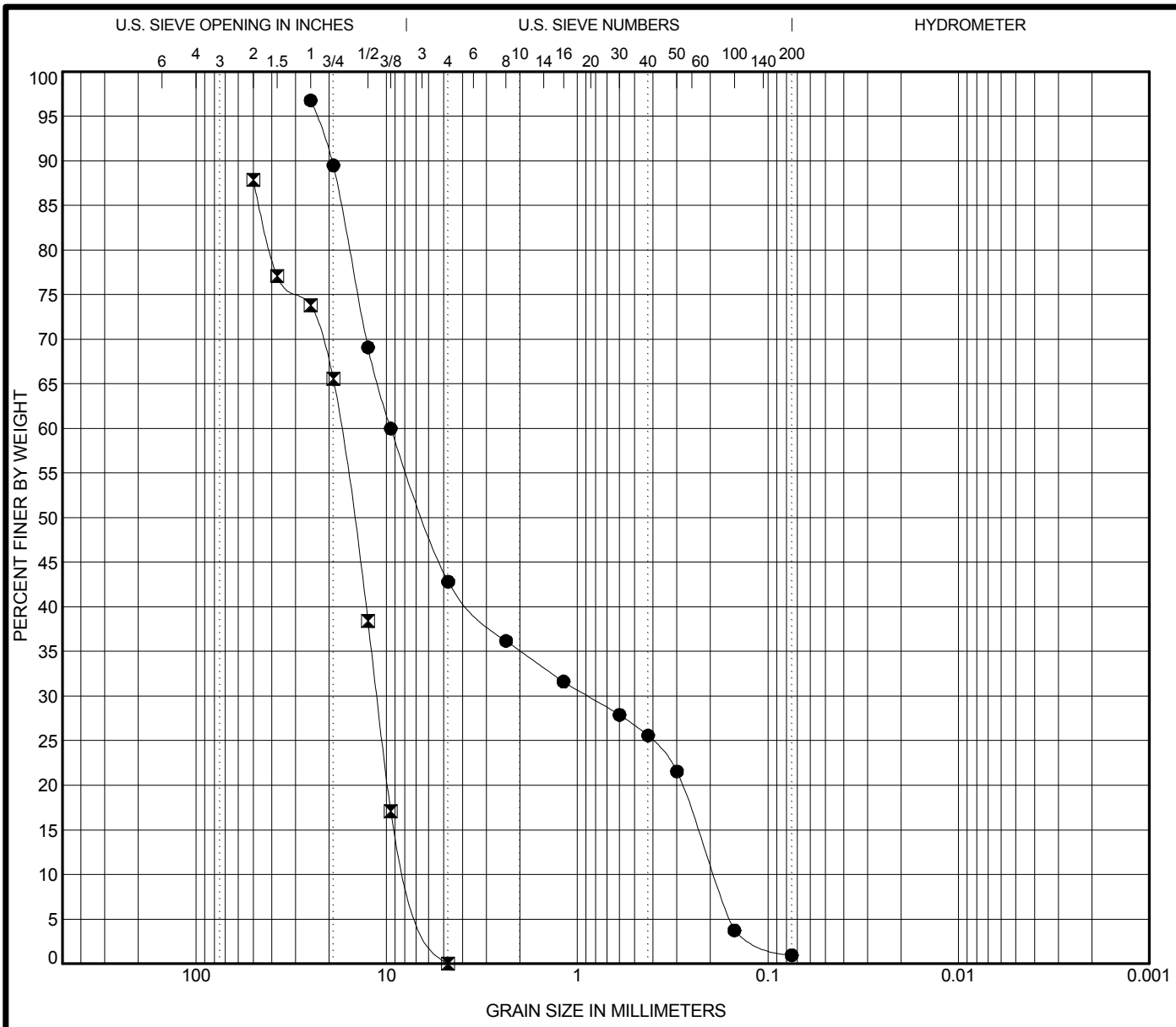
# MOISTURE-DENSITY RELATIONSHIP

Project: 10-075 CRA Georgetown

Location: Georgetown Mine

Number:

GAGNINN01 2010.075 CRA.GPJ GAGNINN01.GDT 8/7/10




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | Specimen Identification | | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | 1 | **ROAD BASE** | **POORLY GRADED GRAVEL with SAND GP** | | | | **0.43** | **49.62** |
| ⊠ | 2 | **FILTER ROCK** | **POORLY GRADED GRAVEL GP** | | | | **1.01** | **2.45** |

| | Specimen Identification | | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | 1 | **ROAD BASE** | **25** | **9.502** | **0.88** | **0.191** | **54.0** | **41.9** | **0.9** | |
| ⊠ | 2 | **FILTER ROCK** | **50** | **17.436** | **11.217** | **7.122** | **87.9** | | | |

# GRAIN SIZE DISTRIBUTION

Harper-Leavitt Eng.985 No. Capital Ave.Idaho Falls, Idaho, 83405, Phone 208-524-0212, Fax 208-524-0229, E-mail fsykes@hleinc.com

US GRAIN SIZE 2010.075 CRA.GPJ US LAB.GDT 23/8/10

# Harper-Leavitt Engineering Inc.
## 985 North Capital Avn.
## Idaho Falls, Idaho

Aggretate Report

| | | | |
|---|---|---|---|
| Project | CRA Georgetown | HLE Job No. | 2010-075 |
| Location | Georgetown Canyon | Sample No | 3 |
| Soil | Dud Hollow 3" Minus Class NA | Depth | NA |
| Tested By | J Bragg | Test Date | 23-Jun-10 |

| | |
|---|---|
| Total Wt. Of Sample + Tare | 25990.0 |
| Tare | 0.0 |
| Total Wt. Of Sample Tested | 25990.0 |

| | Test No: | | Time: | |
|---|---|---|---|---|
| Sieve Size | Accumulative Wt. | | % Retained | % Passing |
| 100 (4) | | | 0 | 100 |
| 75 (3) | | | 0 | 100 |
| 62.5 (2 1/2) | | | 0 | 100 |
| 50 (2) | | | 0 | 100 |
| 3.75 (1 1/2) | | | 0 | 100 |
| 25.0 (1) | 0.0 | | 0 | 100 |
| 19 (3/4) | 6607.0 | | 25 | 75 |
| 12.5 (1/2) | 9437.0 | | 36 | 64 |
| 9.5 (3/8) | 11352.0 | | 44 | 56 |
| 4.75 (#4)-M3 | 14304.0 | | 55 | 45 |
| Pass 4.75-M1 | 11686.0 | | | |
| Wt.-Split Test-M2 | 1303.8 | | | |
| RATIO OF SPLIT-R | 8.963 | | | |
| Sieve Size | Accum. Wt. (B) | Cmb. Accum. | % Retained | % Passing |
| 2.36 (#8) | 0.0 | 14304.0 | 55 | 45 |
| 1.18 (#16) | 288.1 | 16886.2 | 65 | 35 |
| .600 (#30) | 398.6 | 17876.7 | 69 | 31 |
| .425 (#40) | 443.0 | 18274.6 | 70 | 30 |
| .300 (#50) | 481.2 | 18617.0 | 72 | 28 |
| .150 (#100) | 623.4 | 19891.6 | 77 | 23 |
| .075 (#200) | 704.0 | 20614.0 | 79.3 | 20.7 |

| | |
|---|---|
| Ratio R= M1/M2 | Cmb. Accum. Wt. = (BxR)+M3 |

# STUKENHOLTZ LABORATORY, INC.

2924 Addison Ave. E., P.O. Box 353 Twin Falls
208.734.3050, Fax: 734.3919 www.stukenholtz.com

1935

WILLIAMS, JAMES B
181 WEST 3RD SOUTH

SODA SPRINGS ID 83276

208/547-3935 208/547-3022
Report No.: 34838
Date Received: 8/09/10
Date Reported: 8/10/10

| SOIL TEST DATA | Sample 1 | | Sample 2 |
|---|---|---|---|
| pH | 7.8 | H | |
| Salts, mmhos/cm | 0.6 | VL | |
| Chlorides, ppm | 13 | L | |
| Sodium, meq/100g | 0.2 | VL | |
| CEC, meq/100g | 11.5 | M | |
| Excess Lime, % | 6.6 | H | |
| Organic Matter, % | 2.09 | M | |
| Organic N, lb/Acre | 80 | M | |
| Ammonium - N, ppm | 7.7 | L | |
| Nitrate - N, ppm | 4 | VL | |
| Phosphorus, ppm | 38 | H | |
| Potassium, ppm | 80 | L | |
| Calcium, meq/100g | 9.7 | VH | |
| Magnesium, meq/100g | 1.3 | M | |
| Sulfate - S, ppm | 20 | M | |
| Zinc, ppm | 6.3 | VH | |
| Iron, ppm | 44.7 | VH | |
| Manganese, ppm | 18.2 | VH | |
| Copper, ppm | 1.8 | H | |
| Boron, ppm | 0.60 | L | |

| | Sample 1 | Sample 2 |
|---|---|---|
| **Grower:** | **WILLIAMS, JAMES** | |
| **Sample Identity** | **SPOIL N** | |
| **Crop** | **NATIVE PLANTS** | |
| **Yield Goal** | **2** | |
| **Acres** | | |
| **Prev. Crop T/Acre** | **GRASS** | |
| **Manure T/Acre** | | |
| **Prev. Applied Nutrients** | | |

RECOMMENDATIONS, lbs. Nutrients or Units Per Acre.

| | |
|---|---|
| Nitrogen | 115 |
| $P_2O_5$ - Phosphate | 0 |
| $K_2O$ - Potash | 80 |
| Calcium | 0 |
| Magnesium | 0 |
| Sulfate - Sulfur | 0 |
| Zinc | 0 |
| Iron | 0 |
| Manganese | 0 |
| Copper | 0 |
| Boron | 0 |
| Elemental Sulfur | 0 |

| RELATION OF CEC TO SOIL TEXTURE | | SAMPLE | ACTUAL AND RECOMMENDED PERCENT OF CEC | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Actual % Potassium | Recommended Potassium | Actual % Calcium | Recommended Calcium | Actual % Magnesium | Recommended Magnesium | Actual % Sodium | Recommended Sodium |
| 0 - 5 | Sand | | | | | | | | | |
| 5 - 12 | Loamy Sand | | | | | | | | | |
| 12 - 18 | Sandy Loam | | | | | | | | | |
| 18 - 24 | Silt Loam | | | | | | | | | |
| 24 -36 | Clay Loam | | | | | | | | | |
| 36 + | Clay | | | | | | | | | |
| | | 1 | 2.3 | 3.0 - 6.0 % | 84.3 | 65 - 80 % | 11.3 | 15 - 25 % | 1.7 | < 3.0 % |
| | | 2 | | | | | | | | |

Crop1:Split application of N is advised. Monitor crop with plant tissue tests and add N as needed.
Crop1:Excessively Calcareous soils respond to 100-200 lbs/ac of Elemental Sulfur or Acid forming fertilizers.

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1935

WILLIAMS, JAMES B
181 WEST 3RD SOUTH

SODA SPRINGS ID 83276

208/547-3935 208/547-3022
Report No.: 34839
Date Received: 8/09/10
Date Reported: 8/10/10

| SOIL TEST DATA | Sample 1 | | Sample 2 |
|---|---|---|---|
| pH | 7.7 | H | |
| Salts, mmhos/cm | 0.6 | VL | |
| Chlorides, ppm | 14 | L | |
| Sodium, meq/100g | 0.1 | VL | |
| CEC, meq/100g | 12 | M | |
| Excess Lime, % | 9.5 | VH | |
| Organic Matter, % | 1.21 | M | |
| Organic N, lb/Acre | 50 | M | |
| Ammonium - N, ppm | 2.8 | VL | |
| Nitrate - N, ppm | 4 | VL | |
| Phosphorus, ppm | 330 | VH | |
| Potassium, ppm | 80 | L | |
| Calcium, meq/100g | 9.9 | VH | |
| Magnesium, meq/100g | 1.7 | H | |
| Sulfate - S, ppm | 15 | M | |
| Zinc, ppm | 6.6 | VH | |
| Iron, ppm | 18.4 | H | |
| Manganese, ppm | 10.4 | VH | |
| Copper, ppm | 1.1 | M | |
| Boron, ppm | 0.40 | L | |

| | Sample 1 | Sample 2 |
|---|---|---|
| **Grower:** | **WILLIAMS, JAMES** | |
| **Sample Identity** | **SPOILS S** | |
| **Crop** | **GRASS** | |
| **Yield Goal** | **2 T** | |
| **Acres** | | |
| **Prev. Crop T/Acre** | **NATIVE PLANTS** | |
| **Manure T/Acre** | | |
| **Prev. Applied Nutrients** | | |

RECOMMENDATIONS, lbs. Nutrients or Units Per Acre.

| | |
|---|---|
| Nitrogen | 130 |
| $P_2O_5$ - Phosphate | 0 |
| $K_2O$ - Potash | 80 |
| Calcium | 0 |
| Magnesium | 0 |
| Sulfate - Sulfur | 10 |
| Zinc | 0 |
| Iron | 0 |
| Manganese | 0 |
| Copper | 0 |
| Boron | 1 |
| Elemental Sulfur | 0 |

RELATION OF CEC TO SOIL TEXTURE

| | |
|---|---|
| 0 - 5 | Sand |
| 5 - 12 | Loamy Sand |
| 12 - 18 | Sandy Loam |
| 18 - 24 | Silt Loam |
| 24 -36 | Clay Loam |
| 36 + | Clay |

ACTUAL AND RECOMMENDED PERCENT OF CEC

| SAMPLE | Actual % Potassium | Recommended Potassium | Actual % Calcium | Recommended Calcium | Actual % Magnesium | Recommended Magnesium | Actual % Sodium | Recommended Sodium |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.2 | 3.0 - 6.0 % | 82.5 | 65 - 80 % | 14.2 | 15 - 25 % | 0.8 | < 3.0 % |
| 2 | | | | | | | | |

Crop1:Split application of N is advised. Monitor crop with plant tissue tests and add N as needed.
Crop1:Excessively Calcareous soils respond to 100-200 lbs/ac of Elemental Sulfur or Acid forming fertilizers.
Crop1: Phosphorus is unusually high.

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1935

WILLIAMS, JAMES B
181 WEST 3RD SOUTH

SODA SPRINGS ID 83276

208/547-3935 208/547-3022
Report No.: 42740
Date Received: 9/12/10
Date Reported: 9/13/10

| SOIL TEST DATA | Sample 1 | | Sample 2 |
|---|---|---|---|
| pH | **8.0** | H | |
| Salts, mmhos/cm | **0.6** | VL | |
| Chlorides, ppm | **14** | L | |
| Sodium, meq/100g | **0.1** | VL | |
| CEC, meq/100g | **12.8** | M | |
| Excess Lime, % | **8.6** | H | |
| Organic Matter, % | **1.41** | M | |
| Organic N, lb/Acre | **35** | L | |
| Ammonium - N, ppm | **6** | L | |
| Nitrate - N, ppm | **3** | VL | |
| Phosphorus, ppm | **315** | VH | |
| Potassium, ppm | **110** | L | |
| Calcium, meq/100g | **10.4** | VH | |
| Magnesium, meq/100g | **1.9** | H | |
| Sulfate - S, ppm | **13** | M | |
| Zinc, ppm | **5.9** | VH | |
| Iron, ppm | **20.5** | H | |
| Manganese, ppm | **17.3** | VH | |
| Copper, ppm | **1.7** | H | |
| Boron, ppm | **0.45** | L | |

| | Sample 1 | Sample 2 |
|---|---|---|
| **Grower:** | **WILLIAMS, JAMES** | |
| **Sample Identity** | **G&D LANDFILL** | |
| **Crop** | **NATIVE PLANTS** | |
| **Yield Goal** | **GOOD** | |
| **Acres** | | |
| **Prev. Crop T/Acre** | **NATIVE PLANTS** | |
| **Manure T/Acre** | | |
| **Prev. Applied Nutrients** | | |

RECOMMENDATIONS, lbs. Nutrients or Units Per Acre.

| | |
|---|---|
| Nitrogen | **130** |
| $P_2O_5$ - Phosphate | **0** |
| $K_2O$ - Potash | **50** |
| Calcium | **0** |
| Magnesium | **0** |
| Sulfate - Sulfur | **10** |
| Zinc | **0** |
| Iron | **0** |
| Manganese | **0** |
| Copper | **0** |
| Boron | **0** |
| Elemental Sulfur | **75** |

| RELATION OF CEC TO SOIL TEXTURE | | SAMPLE | ACTUAL AND RECOMMENDED PERCENT OF CEC | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | **Actual % Potassium** | Recommended Potassium | **Actual % Calcium** | Recommended Calcium | **Actual % Magnesium** | Recommended Magnesium | **Actual % Sodium** | Recommended Sodium |
| 0 - 5 | Sand | | | | | | | | | |
| 5 - 12 | Loamy Sand | | | | | | | | | |
| 12 - 18 | Sandy Loam | | | | | | | | | |
| 18 - 24 | Silt Loam | 1 | **2.9** | 3.0 - 6.0 % | **81.3** | 65 - 80 % | **14.8** | 15 - 25 % | **0.8** | < 3.0 % |
| 24 -36 | Clay Loam | | | | | | | | | |
| 36 + | Clay | 2 | | | | | | | | |

Crop1:Split application of N is advised.

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1935

WILLIAMS, JAMES B
181 WEST 3RD SOUTH

SODA SPRINGS ID 83276

208/547-3935 208/547-3022
Report No.: 42739
Date Received: 9/12/10
Date Reported: 9/13/10

| SOIL TEST DATA | Sample 1 | | Sample 2 |
|---|---|---|---|
| pH | **7.9** | H | |
| Salts, mmhos/cm | **0.5** | VL | |
| Chlorides, ppm | **13** | L | |
| Sodium, meq/100g | **0.1** | VL | |
| CEC, meq/100g | **12.1** | M | |
| Excess Lime, % | **5.0** | H | |
| Organic Matter, % | **0.98** | L | |
| Organic N, lb/Acre | **30** | L | |
| Ammonium - N, ppm | **5.2** | L | |
| Nitrate - N, ppm | **3** | VL | |
| Phosphorus, ppm | **9** | L | |
| Potassium, ppm | **100** | L | |
| Calcium, meq/100g | **11.0** | VH | |
| Magnesium, meq/100g | **0.7** | L | |
| Sulfate - S, ppm | **4** | VL | |
| Zinc, ppm | **0.7** | L | |
| Iron, ppm | **9.8** | M | |
| Manganese, ppm | **5.0** | M | |
| Copper, ppm | **0.6** | L | |
| Boron, ppm | **0.30** | VL | |

| | Sample 1 | Sample 2 |
|---|---|---|
| **Grower:** | **WILLIAMS, JAMES** | |
| **Sample Identity** | **DVD HOLLOW** | |
| **Crop** | **NATIVE PLANTS** | |
| **Yield Goal** | **GOOD** | |
| **Acres** | | |
| **Prev. Crop T/Acre** | **NATIVE PLANTS** | |
| **Manure T/Acre** | | |
| **Prev. Applied Nutrients** | | |

RECOMMENDATIONS, lbs. Nutrients or Units Per Acre.

| | |
|---|---|
| Nitrogen | **140** |
| $P_2O_5$ - Phosphate | **65** |
| $K_2O$ - Potash | **60** |
| Calcium | **0** |
| Magnesium | **0** |
| Sulfate - Sulfur | **30** |
| Zinc | **7** |
| Iron | **0** |
| Manganese | **0** |
| Copper | **0** |
| Boron | **1** |
| Elemental Sulfur | **50** |

| RELATION OF CEC TO SOIL TEXTURE | |
|---|---|
| 0 - 5 | Sand |
| 5 - 12 | Loamy Sand |
| 12 - 18 | Sandy Loam |
| 18 - 24 | Silt Loam |
| 24 -36 | Clay Loam |
| 36 + | Clay |

| SAMPLE | ACTUAL AND RECOMMENDED PERCENT OF CEC | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Actual % Potassium** | Recommended Potassium | **Actual % Calcium** | Recommended Calcium | **Actual % Magnesium** | Recommended Magnesium | **Actual % Sodium** | Recommended Sodium |
| 1 | **2.8** | 3.0 - 6.0 % | **90.9** | 65 - 80 % | **5.8** | 15 - 25 % | **0.8** | < 3.0 % |
| 2 | | | | | | | | |

Crop1:Split application of N is advised.

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2924 Addison Ave. E., P.O. Box 353 Twin Falls
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1935

WILLIAMS, JAMES B
181 WEST 3RD SOUTH

SODA SPRINGS ID 83276

208/547-3935 208/547-3022
Report No.: 40530
Date Received: 9/06/10
Date Reported: 9/07/10

| SOIL TEST DATA | Sample 1 | | Sample 2 |
|---|---|---|---|
| pH | 7.0 | M | |
| Salts, mmhos/cm | 0.8 | VL | |
| Chlorides, ppm | 15 | L | |
| Sodium, meq/100g | 0.1 | VL | |
| CEC, meq/100g | 13.9 | M | |
| Excess Lime, % | 0.2 | VL | |
| Organic Matter, % | 2.26 | M | |
| Organic N, lb/Acre | 45 | M | |
| Ammonium - N, ppm | 2.2 | VL | |
| Nitrate - N, ppm | 5 | VL | |
| Phosphorus, ppm | 422 | VH | |
| Potassium, ppm | 145 | L | |
| Calcium, meq/100g | 10.7 | VH | |
| Magnesium, meq/100g | 2.6 | H | |
| Sulfate - S, ppm | 20 | M | |
| Zinc, ppm | 5.9 | VH | |
| Iron, ppm | 24.9 | H | |
| Manganese, ppm | 10.8 | VH | |
| Copper, ppm | 1.7 | H | |
| Boron, ppm | 0.50 | L | |

| | Sample 1 | Sample 2 |
|---|---|---|
| Grower: | WILLIAMS, JAMES | |
| Sample Identity | CH 900-2000 | |
| Crop | NATIVE PLANTS | |
| Yield Goal | GOOD | |
| Acres | | |
| Prev. Crop T/Acre | NATIVE PLANTS | |
| Manure T/Acre | | |
| Prev. Applied Nutrients | | |

RECOMMENDATIONS, lbs. Nutrients or Units Per Acre.

| | |
|---|---|
| Nitrogen | 110 |
| $P_2O_5$ - Phosphate | 0 |
| $K_2O$ - Potash | 30 |
| Calcium | 0 |
| Magnesium | 0 |
| Sulfate - Sulfur | 0 |
| Zinc | 0 |
| Iron | 0 |
| Manganese | 0 |
| Copper | 0 |
| Boron | 0 |
| Elemental Sulfur | 0 |

RELATION OF CEC TO SOIL TEXTURE

| | |
|---|---|
| 0 - 5 | Sand |
| 5 - 12 | Loamy Sand |
| 12 - 18 | Sandy Loam |
| 18 - 24 | Silt Loam |
| 24 -36 | Clay Loam |
| 36 + | Clay |

ACTUAL AND RECOMMENDED PERCENT OF CEC

| SAMPLE | Actual % Potassium | Recommended Potassium | Actual % Calcium | Recommended Calcium | Actual % Magnesium | Recommended Magnesium | Actual % Sodium | Recommended Sodium |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.5 | 3.0 - 5.0 % | 77.0 | 65 - 80 % | 18.7 | 15 - 25 % | 0.7 | < 3.0 % |
| 2 | | | | | | | | |

Crop1:Split application of N is advised. Monitor crop with plant tissue tests and add N as needed.
Crop1: Soil test P is unusually high and sample may have been contaminated by P containing fertilizers.

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ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Analytical Report

September 01, 2009

Report to:
Mitch Hart
Nu-West Industries, Inc.
3010 Conda Road
Soda Springs, ID 83276

Bill to:
Accounts Payable
Nu-West Industries, Inc.
P.O. Box 5000, Station A
Calgary, Canada, AB T2H 3B9

cc: JB Brown, James Williams

Project ID: 4800036485
ACZ Project ID: L77285

Mitch Hart:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 03, 2009. This project has been assigned to ACZ's project number, L77285. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L77285. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 01, 2009. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Tony Antalek has reviewed and approved this report.

Nu-West Industries, Inc.

September 01, 2009

Project ID: 4800036485
ACZ Project ID: L77285

## Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 soil sample from Nu-West Industries, Inc. on August 3, 2009. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L77285. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

## Holding Times

All analyses were performed within EPA recommended holding times.

## Sample Analysis

This sample was analyzed for inorganic, organic and radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. Client samples were received at a temperature outside of the acceptable range (See Sample Receipt Form).

2. For those Base Neutral Acid Extractables analysis compounds qualified with the ACZ 'N1' flag, quality control element recoveries were outside of method control limits (70-130%). Poor extraction efficiency is consistently observed for these compounds. In-house acceptance limits are currently under development as permitted by the method.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Inorganic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800036485
Sample ID: SED POND 1

ACZ Sample ID: ***L77285-01***
Date Sampled: *07/31/09 11:00*
Date Received: *08/03/09*
Sample Matrix: *Soil*

Inorganic Prep

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid Digestion | | | | | | | 08/07/09 17:18 | skg |
| Total Hot Plate Digestion | M3010A ICP | | | | | | | 08/18/09 16:45 | ear |

Metals Analysis

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum, total (3050) | M6010B ICP | 22200 | | * | mg/Kg | 3 | 20 | 08/06/09 23:08 | ear |
| Antimony, total (3050) | M6020 ICP-MS | 8.7 | | * | mg/Kg | 0.2 | 1 | 08/07/09 16:46 | msh |
| Arsenic (TCLP) | M6010B ICP | | U | * | mg/L | 0.1 | 0.6 | 08/19/09 11:35 | ear |
| Arsenic, total (3050) | M6020 ICP-MS | 38.3 | | | mg/Kg | 0.3 | 1 | 08/07/09 16:46 | msh |
| Barium (TCLP) | M6010B ICP | 0.223 | | * | mg/L | 0.006 | 0.03 | 08/20/09 10:04 | ear |
| Barium, total (3050) | M6010B ICP | 82.1 | | * | mg/Kg | 0.3 | 2 | 08/06/09 23:08 | ear |
| Beryllium, total (3050) | M6010B ICP | 1.8 | | | mg/Kg | 0.2 | 1 | 08/06/09 23:08 | ear |
| Cadmium (TCLP) | M6010B ICP | 0.08 | | * | mg/L | 0.01 | 0.03 | 08/19/09 11:35 | ear |
| Cadmium, total (3050) | M6010B ICP | 53.9 | | | mg/Kg | 0.5 | 2 | 08/06/09 23:08 | ear |
| Calcium, total (3050) | M6010B ICP | 99300 | | * | mg/Kg | 40 | 200 | 08/07/09 16:38 | aeh |
| Chromium (TCLP) | M6010B ICP | 0.03 | B | * | mg/L | 0.02 | 0.1 | 08/19/09 11:35 | ear |
| Chromium, total (3050) | M6010B ICP | 1060 | | | mg/Kg | 1 | 5 | 08/06/09 23:08 | ear |
| Copper, total (3050) | M6010B ICP | 108 | | * | mg/Kg | 1 | 5 | 08/06/09 23:08 | ear |
| Iron, total (3050) | M6010B ICP | 20400 | | * | mg/Kg | 2 | 5 | 08/06/09 23:08 | ear |
| Lead (TCLP) | M6010B ICP | | U | * | mg/L | 0.08 | 0.4 | 08/19/09 11:35 | ear |
| Lead, total (3050) | M6020 ICP-MS | 17.80 | | | mg/Kg | 0.05 | 0.3 | 08/07/09 16:46 | msh |
| Magnesium, total (3050) | M6010B ICP | 5990 | | | mg/Kg | 20 | 100 | 08/06/09 23:08 | ear |
| Manganese, total (3050) | M6010B ICP | 398 | | * | mg/Kg | 0.5 | 3 | 08/06/09 23:08 | ear |
| Mercury (TCLP) | M7470 CVAA | | U | * | mg/L | 0.0002 | 0.001 | 08/24/09 15:06 | pmc |
| Molybdenum, total (3050) | M6010B ICP | 42 | | | mg/Kg | 1 | 5 | 08/06/09 23:08 | ear |
| Nickel, total (3050) | M6010B ICP | 250 | | * | mg/Kg | 1 | 5 | 08/06/09 23:08 | ear |
| Potassium, total (3050) | M6010B ICP | 6250 | | | mg/Kg | 30 | 200 | 08/06/09 23:08 | ear |
| Selenium (TCLP) | M6010B ICP | | U | * | mg/L | 0.1 | 0.6 | 08/20/09 10:04 | ear |
| Selenium, total (3050) | M7742 Modified, AA-Hydride | 70 | | * | mg/Kg | 3 | 10 | 08/10/09 17:48 | pmc |
| Silver (TCLP) | M6010B ICP | | U | * | mg/L | 0.02 | 0.05 | 08/19/09 11:35 | ear |
| Silver, total (3050) | M6020 ICP-MS | 8.22 | | | mg/Kg | 0.03 | 0.1 | 08/07/09 16:46 | msh |
| Sodium, total (3050) | M6010B ICP | 680 | | * | mg/Kg | 30 | 200 | 08/06/09 23:08 | ear |
| Thallium, total (3050) | M6020 ICP-MS | 3.74 | | | mg/Kg | 0.05 | 0.3 | 08/07/09 16:46 | msh |
| Uranium, total (3050) | M6020 ICP-MS | 42.60 | | * | mg/Kg | 0.05 | 0.3 | 08/10/09 18:01 | msh |
| Vanadium, total (3050) | M6010B ICP | 1080 | | * | mg/Kg | 0.5 | 3 | 08/06/09 23:08 | ear |
| Zinc, total (3050) | M6010B ICP | 1340 | | * | mg/Kg | 1 | 5 | 08/06/09 23:08 | ear |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Inorganic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800036485
Sample ID: SED POND 1

ACZ Sample ID: ***L77285-01***
Date Sampled: *07/31/09 11:00*
Date Received: *08/03/09*
Sample Matrix: *Soil*

Soil Analysis

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| pH, Corrosivity | M9045D/M9040C | | | | | | | | |
| pH | | 7.5 | | | units | 0.1 | 0.1 | 08/11/09 0:00 | as |
| pH measured at | | 23.8 | | | C | 0.1 | 0.1 | 08/11/09 0:00 | as |
| Solids, Percent | CLPSOW390, PART F, D-98 | 81.0 | | * | % | 0.1 | 0.5 | 08/05/09 13:00 | itk |

Soil Preparation

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Air Dry at 34 Degrees C | USDA No. 1, 1972 | | | | | | | 08/04/09 16:00 | mjc |
| Digestion - Hot Plate | M3050B ICP-MS | | | | | | | 08/06/09 2:23 | itk |
| Digestion - Hot Plate | M3050B ICP | | | | | | | 08/06/09 2:23 | itk |
| Sieve-2000 um (2.0mm) | ASA No.9, 15-4.2.2 | | | | | | | 08/05/09 9:11 | itk |
| TCLP Metal Extraction | M1311 | | | | | | | 08/17/09 16:45 | mjc |

Wet Chemistry

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) | 4.05 | | * | % | 0.02 | 0.1 | 08/07/09 21:18 | pjb |



** Please refer to Qualifier Reports for details.*

## Report Header Explanations

| | |
|---|---|
| Batch | A distinct set of samples analyzed at a specific time |
| Found | Value of the QC Type of interest |
| Limit | Upper limit for RPD, in %. |
| Lower | Lower Recovery Limit, in % (except for LCSS, mg/Kg) |
| MDL | Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations. |
| PCN/SCN | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| PQL | Practical Quantitation Limit, typically 5 times the MDL. |
| QC | True Value of the Control Sample or the amount added to the Spike |
| Rec | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) |
| RPD | Relative Percent Difference, calculation used for Duplicate QC Types |
| Upper | Upper Recovery Limit, in % (except for LCSS, mg/Kg) |
| Sample | Value of the Sample of interest |

## QC Sample Types

| | | | |
|---|---|---|---|
| AS | Analytical Spike (Post Digestion) | LCSWD | Laboratory Control Sample - Water Duplicate |
| ASD | Analytical Spike (Post Digestion) Duplicate | LFB | Laboratory Fortified Blank |
| CCB | Continuing Calibration Blank | LFM | Laboratory Fortified Matrix |
| CCV | Continuing Calibration Verification standard | LFMD | Laboratory Fortified Matrix Duplicate |
| DUP | Sample Duplicate | LRB | Laboratory Reagent Blank |
| ICB | Initial Calibration Blank | MS | Matrix Spike |
| ICV | Initial Calibration Verification standard | MSD | Matrix Spike Duplicate |
| ICSAB | Inter-element Correction Standard - A plus B solutions | PBS | Prep Blank - Soil |
| LCSS | Laboratory Control Sample - Soil | PBW | Prep Blank - Water |
| LCSSD | Laboratory Control Sample - Soil Duplicate | PQV | Practical Quantitation Verification standard |
| LCSW | Laboratory Control Sample - Water | SDL | Serial Dilution |

## QC Sample Type Explanations

| | |
|---|---|
| Blanks | Verifies that there is no or minimal contamination in the prep method or calibration procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure. |
| Duplicates | Verifies the precision of the instrument and/or method. |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any. |
| Standard | Verifies the validity of the calibration. |

## ACZ Qualifiers (Qual)

| | |
|---|---|
| B | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity. |
| H | Analysis exceeded method hold time. pH is a field test with an immediate hold time. |
| U | The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. |

## Method References

| | |
|---|---|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983. |
| (2) | EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993. |
| (3) | EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994. |
| (5) | EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996. |
| (6) | Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998). |

## Comments

| | |
|---|---|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations. |
| (2) | Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis. |
| (3) | Animal matrices for Inorganic analyses are reported on an "as received" basis. |

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Aluminum, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.977 | mg/L | 98.9 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -9 | 9 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 10500 | | 12489.9 | mg/Kg | | 4370 | 16600 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 10500 | | 12895.8 | mg/Kg | | 4370 | 16600 | 3.2 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 101 | 5360 | 7372 | mg/Kg | 1992.1 | 75 | 125 | | | M3 |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 101 | 5360 | 6876.4 | mg/Kg | 1501.4 | 75 | 125 | 6.96 | 20 | M3 |

**Antimony, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268226** | | | | | | | | | | | | | |
| WG268226ICV | ICV | 08/07/09 16:03 | MS090727-2 | .02 | | .01852 | mg/L | 92.6 | 90 | 110 | | | |
| WG268226ICB | ICB | 08/07/09 16:07 | | | | U | mg/L | | -0.0012 | 0.0012 | | | |
| WG268142PBS | PBS | 08/07/09 16:21 | | | | U | mg/Kg | | -0.6 | 0.6 | | | |
| WG268142LCSS | LCSS | 08/07/09 16:25 | PCN32909 | 105 | | 80.3 | mg/Kg | | 52.8 | 158 | | | |
| WG268142LCSSD | LCSSD | 08/07/09 16:28 | PCN32909 | 105 | | 82.2 | mg/Kg | | 52.8 | 158 | 2.3 | 20 | |
| L77197-01MS | MS | 08/07/09 16:35 | MS090529-3 | 5 | .3 | 2.22 | mg/Kg | 38.4 | 75 | 125 | | | M2 |
| L77197-01MSD | MSD | 08/07/09 16:39 | MS090529-3 | 5 | .3 | 2.44 | mg/Kg | 42.8 | 75 | 125 | 9.44 | 20 | M2 |

**Arsenic (TCLP)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268833** | | | | | | | | | | | | | |
| WG268833ICV | ICV | 08/19/09 11:12 | II090721-3 | 4 | | 3.946 | mg/L | 98.7 | 90 | 110 | | | |
| WG268833ICB | ICB | 08/19/09 11:16 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG268690PBS | PBS | 08/19/09 11:29 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG268690LFB2 | LFB | 08/19/09 11:32 | IITCLPSPIK | 1 | | .9 | mg/L | 90 | 85 | 115 | | | |
| L77528-01MS | MS | 08/19/09 11:48 | IITCLPSPIK | 1 | U | .94 | mg/L | 94 | 75 | 125 | | | |
| L77528-01MSD | MSD | 08/19/09 11:58 | IITCLPSPIK | 1 | U | 1.03 | mg/L | 103 | 75 | 125 | 9.14 | 20 | |
| L77529-01DUP | DUP | 08/19/09 12:05 | | | U | U | mg/L | | | | 0 | 20 | RA |

**Arsenic, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268226** | | | | | | | | | | | | | |
| WG268226ICV | ICV | 08/07/09 16:03 | MS090727-2 | .05 | | .04978 | mg/L | 99.6 | 90 | 110 | | | |
| WG268226ICB | ICB | 08/07/09 16:07 | | | | U | mg/L | | -0.0015 | 0.0015 | | | |
| WG268142PBS | PBS | 08/07/09 16:21 | | | | U | mg/Kg | | -0.9 | 0.9 | | | |
| WG268142LCSS | LCSS | 08/07/09 16:25 | PCN32909 | 88.3 | | 83.9 | mg/Kg | | 69 | 108 | | | |
| WG268142LCSSD | LCSSD | 08/07/09 16:28 | PCN32909 | 88.3 | | 90.5 | mg/Kg | | 69 | 108 | 7.6 | 20 | |
| L77197-01MS | MS | 08/07/09 16:35 | MS090529-3 | 25.025 | 6.7 | 30.48 | mg/Kg | 95 | 75 | 125 | | | |
| L77197-01MSD | MSD | 08/07/09 16:39 | MS090529-3 | 25.025 | 6.7 | 31.47 | mg/Kg | 99 | 75 | 125 | 3.2 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Barium (TCLP)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268878** | | | | | | | | | | | | | |
| WG268878ICV | ICV | 08/20/09 9:39 | II090721-3 | 2 | | 2.0233 | mg/L | 101.2 | 90 | 110 | | | |
| WG268878ICB | ICB | 08/20/09 9:43 | | | | U | mg/L | | -0.009 | 0.009 | | | |
| WG268690PBS | PBS | 08/20/09 9:56 | | | | .0226 | mg/L | | -0.018 | 0.018 | | | B5 |
| WG268690LFB | LFB | 08/20/09 10:00 | IITCLPSPIK | 20.5 | | 22.5172 | mg/L | 109.8 | 85 | 115 | | | |
| L77528-01MS | MS | 08/20/09 10:19 | IITCLPSPIK | 20.5 | 4.26 | 26.765 | mg/L | 109.8 | 75 | 125 | | | |
| L77528-01MSD | MSD | 08/20/09 10:22 | IITCLPSPIK | 20.5 | 4.26 | 27.4324 | mg/L | 113 | 75 | 125 | 2.46 | 20 | |
| L77529-01DUP | DUP | 08/20/09 10:30 | | | 1.18 | 1.3476 | mg/L | | | | 13.3 | 20 | |

**Barium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.9572 | mg/L | 97.9 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.009 | 0.009 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -0.9 | 0.9 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 432 | | 398.71 | mg/Kg | | 351 | 513 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 432 | | 444.67 | mg/Kg | | 351 | 513 | 10.9 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 397 | 458.01 | mg/Kg | 120.8 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 397 | 421.64 | mg/Kg | 48.8 | 75 | 125 | 8.27 | 20 | M3 |

**Beryllium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.9552 | mg/L | 97.8 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.006 | 0.006 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -0.6 | 0.6 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 58.2 | | 56.63 | mg/Kg | | 48.5 | 68 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 58.2 | | 60.48 | mg/Kg | | 48.5 | 68 | 6.6 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5505 | .9 | 52.45 | mg/Kg | 102 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5505 | .9 | 51.77 | mg/Kg | 100.6 | 75 | 125 | 1.3 | 20 | |

**Cadmium (TCLP)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268833** | | | | | | | | | | | | | |
| WG268833ICV | ICV | 08/19/09 11:12 | II090721-3 | 2 | | 1.9201 | mg/L | 96 | 90 | 110 | | | |
| WG268833ICB | ICB | 08/19/09 11:16 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG268690PBS | PBS | 08/19/09 11:29 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268690LFB2 | LFB | 08/19/09 11:32 | IITCLPSPIK | .5 | | .46 | mg/L | 92 | 85 | 115 | | | |
| L77528-01MS | MS | 08/19/09 11:48 | IITCLPSPIK | .5 | U | .487 | mg/L | 97.4 | 75 | 125 | | | |
| L77528-01MSD | MSD | 08/19/09 11:58 | IITCLPSPIK | .5 | U | .488 | mg/L | 97.6 | 75 | 125 | 0.21 | 20 | |
| L77529-01DUP | DUP | 08/19/09 12:05 | | | U | U | mg/L | | | | 0 | 20 | RA |

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Cadmium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.8951 | mg/L | 94.8 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 91 | | 79.49 | mg/Kg | | 74.1 | 108 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 91 | | 86.13 | mg/Kg | | 74.1 | 108 | 8 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | .7 | 45.25 | mg/Kg | 88.2 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | .7 | 44.84 | mg/Kg | 87.4 | 75 | 125 | 0.91 | 20 | |

**Calcium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268262** | | | | | | | | | | | | | |
| WG268262ICV | ICV | 08/07/09 16:00 | II090721-3 | 100 | | 98.83 | mg/L | 98.8 | 90 | 110 | | | |
| WG268262ICB | ICB | 08/07/09 16:03 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG268142PBS | PBS | 08/07/09 16:16 | | | | U | mg/Kg | | -60 | 60 | | | |
| WG268142LCSS | LCSS | 08/07/09 16:19 | PCN32909 | 9630 | | 9980 | mg/Kg | | 7570 | 11700 | | | |
| WG268142LCSSD | LCSSD | 08/07/09 16:22 | PCN32909 | 9630 | | 10321 | mg/Kg | | 7570 | 11700 | 3.4 | 20 | |
| L77193-01MS | MS | 08/07/09 16:32 | II090730-2 | 6867.73134 | 13800 | 20092 | mg/Kg | 91.6 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/07/09 16:35 | II090730-2 | 6867.73134 | 13800 | 18868 | mg/Kg | 73.8 | 75 | 125 | 6.28 | 20 | MA |

**Chromium (TCLP)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268833** | | | | | | | | | | | | | |
| WG268833ICV | ICV | 08/19/09 11:12 | II090721-3 | 2 | | 1.916 | mg/L | 95.8 | 90 | 110 | | | |
| WG268833ICB | ICB | 08/19/09 11:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268690PBS | PBS | 08/19/09 11:29 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG268690LFB2 | LFB | 08/19/09 11:32 | IITCLPSPIK | .5 | | .464 | mg/L | 92.8 | 85 | 115 | | | |
| L77528-01MS | MS | 08/19/09 11:48 | IITCLPSPIK | .5 | U | .498 | mg/L | 99.6 | 75 | 125 | | | |
| L77528-01MSD | MSD | 08/19/09 11:58 | IITCLPSPIK | .5 | U | .502 | mg/L | 100.4 | 75 | 125 | 0.8 | 20 | |
| L77529-01DUP | DUP | 08/19/09 12:05 | | | .04 | U | mg/L | | | | 200 | 20 | RA |

**Chromium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.898 | mg/L | 94.9 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 144 | | 129.2 | mg/Kg | | 116 | 172 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 144 | | 141.1 | mg/Kg | | 116 | 172 | 8.8 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 11 | 54.9 | mg/Kg | 86.9 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 11 | 55.1 | mg/Kg | 87.3 | 75 | 125 | 0.36 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Copper, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.922 | mg/L | 96.1 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 237 | | 210.9 | mg/Kg | | 198 | 275 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 237 | | 226.6 | mg/Kg | | 198 | 275 | 7.2 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 181 | 233.1 | mg/Kg | 103.2 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 181 | 212.1 | mg/Kg | 61.6 | 75 | 125 | 9.43 | 20 | M3 |

**Iron, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.913 | mg/L | 95.7 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -6 | 6 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 18900 | | 17336 | mg/Kg | | 9550 | 28200 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 18900 | | 17407.3 | mg/Kg | | 9550 | 28200 | 0.4 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 101 | 5580 | 5823.7 | mg/Kg | 241.3 | 75 | 125 | | | M3 |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 101 | 5580 | 5548.4 | mg/Kg | -31.3 | 75 | 125 | 4.84 | 20 | M3 |

**Lead (TCLP)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268833** | | | | | | | | | | | | | |
| WG268833ICV | ICV | 08/19/09 11:12 | II090721-3 | 4 | | 3.834 | mg/L | 95.9 | 90 | 110 | | | |
| WG268833ICB | ICB | 08/19/09 11:16 | | | | U | mg/L | | -0.12 | 0.12 | | | |
| WG268690PBS | PBS | 08/19/09 11:29 | | | | U | mg/L | | -0.24 | 0.24 | | | |
| WG268690LFB2 | LFB | 08/19/09 11:32 | IITCLPSPIK | 1 | | .875 | mg/L | 87.5 | 85 | 115 | | | |
| L77528-01MS | MS | 08/19/09 11:48 | IITCLPSPIK | 1 | U | .951 | mg/L | 95.1 | 75 | 125 | | | |
| L77528-01MSD | MSD | 08/19/09 11:58 | IITCLPSPIK | 1 | U | .998 | mg/L | 99.8 | 75 | 125 | 4.82 | 20 | |
| L77529-01DUP | DUP | 08/19/09 12:05 | | | U | U | mg/L | | | | 0 | 20 | RA |

**Lead, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268226** | | | | | | | | | | | | | |
| WG268226ICV | ICV | 08/07/09 16:03 | MS090727-2 | .05 | | .05019 | mg/L | 100.4 | 90 | 110 | | | |
| WG268226ICB | ICB | 08/07/09 16:07 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG268142PBS | PBS | 08/07/09 16:21 | | | | U | mg/Kg | | -0.15 | 0.15 | | | |
| WG268142LCSS | LCSS | 08/07/09 16:25 | PCN32909 | 104 | | 98.85 | mg/Kg | | 82.2 | 126 | | | |
| WG268142LCSSD | LCSSD | 08/07/09 16:28 | PCN32909 | 104 | | 108.7 | mg/Kg | | 82.2 | 126 | 9.5 | 20 | |
| L77197-01MS | MS | 08/07/09 16:35 | MS090529-3 | 25.025 | 13.3 | 40.195 | mg/Kg | 107.5 | 75 | 125 | | | |
| L77197-01MSD | MSD | 08/07/09 16:39 | MS090529-3 | 25.025 | 13.3 | 41.705 | mg/Kg | 113.5 | 75 | 125 | 3.69 | 20 | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: 4800036485

**Magnesium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 100 | | 97.53 | mg/L | 97.5 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -60 | 60 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 4040 | | 4096 | mg/Kg | | 2950 | 5130 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 4040 | | 4218 | mg/Kg | | 2950 | 5130 | 2.9 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 5050.89789 | 4030 | 8925 | mg/Kg | 96.9 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 5050.89789 | 4030 | 8380 | mg/Kg | 86.1 | 75 | 125 | 6.3 | 20 | |

**Manganese, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.8993 | mg/L | 95 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 497 | | 464.67 | mg/Kg | | 401 | 593 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 497 | | 493.32 | mg/Kg | | 401 | 593 | 6 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 232 | 273.4 | mg/Kg | 82 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 232 | 252.67 | mg/Kg | 40.9 | 75 | 125 | 7.88 | 20 | M3 |

**Mercury (TCLP)** M7470 CVAA

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG269087** | | | | | | | | | | | | | |
| WG269087ICV | ICV | 08/24/09 12:27 | II090822-1 | .005015 | | .0051 | mg/L | 101.7 | 95 | 105 | | | |
| WG269087ICB | ICB | 08/24/09 12:29 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| **WG269113** | | | | | | | | | | | | | |
| WG269113PBW | PBW | 08/24/09 14:59 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG268690PBS | PBS | 08/24/09 15:01 | | | | U | mg/Kg | | -0.0006 | 0.0006 | | | |
| WG268690LFB | LFB | 08/24/09 15:03 | II090817-2 | .002 | | .002 | mg/L | 100 | 85 | 115 | | | |
| L77528-01MS | MS | 08/24/09 15:10 | II090817-2 | .002 | U | .00177 | mg/L | 88.5 | 85 | 115 | | | |
| L77528-01MSD | MSD | 08/24/09 15:12 | II090817-2 | .002 | U | .00189 | mg/L | 94.5 | 85 | 115 | 6.56 | 20 | |
| L77529-01DUP | DUP | 08/24/09 15:17 | | | U | U | mg/L | | | | 0 | 20 | RA |

**Molybdenum, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.98 | mg/L | 99 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 59.8 | | 58.8 | mg/Kg | | 44.7 | 74.8 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 59.8 | | 66.1 | mg/Kg | | 44.7 | 74.8 | 11.7 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 4 | 49.9 | mg/Kg | 90.9 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 4 | 50.7 | mg/Kg | 92.5 | 75 | 125 | 1.59 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Nickel, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2.002 | | 1.888 | mg/L | 94.3 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 200 | | 177.7 | mg/Kg | | 162 | 237 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 200 | | 192.7 | mg/Kg | | 162 | 237 | 8.1 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 7 | 51.6 | mg/Kg | 88.3 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 7 | 50.7 | mg/Kg | 86.5 | 75 | 125 | 1.76 | 20 | |

**Ph** M9045D/M9040C

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268400** | | | | | | | | | | | | | |
| WG268400ICV | ICV | 08/11/09 13:55 | PCN29141 | 4 | | 4.01 | units | 100.3 | 90 | 110 | | | |
| L77378-04DUP | DUP | 08/11/09 15:16 | | | 8 | 8 | units | | | | 0 | 20 | |

**Phosphorus, total** M365.1 - Auto Ascorbic Acid (digest)

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268317** | | | | | | | | | | | | | |
| WG268317ICV | ICV | 08/07/09 21:09 | WI090806-1 | 4 | | 4.05 | mg/L | 101.3 | 90 | 110 | | | |
| WG268317ICB | ICB | 08/07/09 21:10 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG268281PBS | PBS | 08/07/09 21:11 | | | | U | % | | -0.006 | 0.006 | | | |
| WG268281LFB | LFB | 08/07/09 21:12 | WI090604-2 | 2.5 | | 2.56 | % | 102.4 | 85 | 115 | | | |
| L77193-01MS | MS | 08/07/09 21:14 | WI090604-2 | .1575 | .53 | .5719 | % | 26.6 | 75 | 125 | | | M3 |
| L77279-01DUP | DUP | 08/07/09 21:15 | | | .097 | .0979 | % | | | | 0.9 | 20 | |

**Potassium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 20 | | 20.1 | mg/L | 100.5 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.9 | 0.9 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -90 | 90 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 4340 | | 4466 | mg/Kg | | 3190 | 5490 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 4340 | | 4619 | mg/Kg | | 3190 | 5490 | 3.4 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 10100.3131 | 4680 | 14620 | mg/Kg | 98.4 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 10100.3131 | 4680 | 14255 | mg/Kg | 94.8 | 75 | 125 | 2.53 | 20 | |

**Selenium (TCLP)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268878** | | | | | | | | | | | | | |
| WG268878ICV | ICV | 08/20/09 9:39 | II090721-3 | 4 | | 4.066 | mg/L | 101.7 | 90 | 110 | | | |
| WG268878ICB | ICB | 08/20/09 9:43 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG268690PBS | PBS | 08/20/09 9:56 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG268690LFB | LFB | 08/20/09 10:00 | IITCLPSPIK | 1 | | 1.07 | mg/L | 107 | 85 | 115 | | | |
| L77528-01MS | MS | 08/20/09 10:19 | IITCLPSPIK | 1 | U | 1.15 | mg/L | 115 | 75 | 125 | | | |
| L77528-01MSD | MSD | 08/20/09 10:22 | IITCLPSPIK | 1 | U | 1.03 | mg/L | 103 | 75 | 125 | 11.01 | 20 | |
| L77529-01DUP | DUP | 08/20/09 10:30 | | | U | U | mg/L | | | | 0 | 20 | RA |

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Selenium, total (3050)** M7742 Modified, AA-Hydride

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268346** | | | | | | | | | | | | | |
| WG268346ICV | ICV | 08/10/09 16:00 | II090724-4 | .025 | | .0237 | mg/L | 94.8 | 90 | 110 | | | |
| WG268346ICB | ICB | 08/10/09 16:01 | | | | U | mg/L | | -0.003 | 0.003 | | | |
| **WG268361** | | | | | | | | | | | | | |
| WG268361PBW | PBW | 08/10/09 17:12 | | | | U | mg/L | | -0.003 | 0.003 | | | |
| WG268142PBS | PBS | 08/10/09 17:13 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG268142LCSS | LCSS | 08/10/09 17:14 | PCN32909 | 192 | | 183 | mg/Kg | | 154 | 230 | | | |
| WG268142LCSSD | LCSSD | 08/10/09 17:16 | PCN32909 | 192 | | 196 | mg/Kg | | 154 | 230 | 6.9 | 20 | |
| L77197-01MS | MS | 08/10/09 17:20 | MS090529-3 | 12.5125 | .7 | 9.21 | mg/Kg | 68 | 85 | 115 | | | M2 |
| L77197-01MSD | MSD | 08/10/09 17:21 | MS090529-3 | 12.5125 | .7 | 8.72 | mg/Kg | 64.1 | 85 | 115 | 5.47 | 20 | M2 |

**Silver (TCLP)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268833** | | | | | | | | | | | | | |
| WG268833ICV | ICV | 08/19/09 11:12 | II090721-3 | 1.002 | | .975 | mg/L | 97.3 | 90 | 110 | | | |
| WG268833ICB | ICB | 08/19/09 11:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268690PBS | PBS | 08/19/09 11:29 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG268690LFB2 | LFB | 08/19/09 11:32 | IITCLPSPIK | .5 | | .47 | mg/L | 94 | 85 | 115 | | | |
| L77528-01MS | MS | 08/19/09 11:48 | IITCLPSPIK | .5 | U | .494 | mg/L | 98.8 | 75 | 125 | | | |
| L77528-01MSD | MSD | 08/19/09 11:58 | IITCLPSPIK | .5 | U | .5 | mg/L | 100 | 75 | 125 | 1.21 | 20 | |
| L77529-01DUP | DUP | 08/19/09 12:05 | | | U | U | mg/L | | | | 0 | 20 | RA |

**Silver, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268226** | | | | | | | | | | | | | |
| WG268226ICV | ICV | 08/07/09 16:03 | MS090727-2 | .01992 | | .02066 | mg/L | 103.7 | 90 | 110 | | | |
| WG268226ICB | ICB | 08/07/09 16:07 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| WG268142PBS | PBS | 08/07/09 16:21 | | | | U | mg/Kg | | -0.09 | 0.09 | | | |
| WG268142LCSS | LCSS | 08/07/09 16:25 | PCN32909 | 76.4 | | 75.85 | mg/Kg | | 50.6 | 102 | | | |
| WG268142LCSSD | LCSSD | 08/07/09 16:28 | PCN32909 | 76.4 | | 86.8 | mg/Kg | | 50.6 | 102 | 13.5 | 20 | |
| L77197-01MS | MS | 08/07/09 16:35 | MS090529-3 | 5.005 | .12 | 5.47 | mg/Kg | 106.9 | 75 | 125 | | | |
| L77197-01MSD | MSD | 08/07/09 16:39 | MS090529-3 | 5.005 | .12 | 5.665 | mg/Kg | 110.8 | 75 | 125 | 3.5 | 20 | |

**Sodium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 100 | | 100.12 | mg/L | 100.1 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.9 | 0.9 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -90 | 90 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 735 | | 713 | mg/Kg | | 542 | 928 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 735 | | 745 | mg/Kg | | 542 | 928 | 4.4 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 10097.05181 | 640 | 10361 | mg/Kg | 96.3 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 10097.05181 | 640 | 10322 | mg/Kg | 95.9 | 75 | 125 | 0.38 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Solids, Percent** CLPSOW390, PART F, D-98

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268045** | | | | | | | | | | | | | |
| WG268045PBS | PBS | 08/04/09 15:45 | | | | U | % | | 99.9 | 100.1 | | | |
| L77279-01DUP | DUP | 08/05/09 0:15 | | | 92.8 | 92.92 | % | | | | 0.1 | 20 | |

**Thallium, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268226** | | | | | | | | | | | | | |
| WG268226ICV | ICV | 08/07/09 16:03 | MS090727-2 | .05 | | .05 | mg/L | 100 | 90 | 110 | | | |
| WG268226ICB | ICB | 08/07/09 16:07 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG268142PBS | PBS | 08/07/09 16:21 | | | | U | mg/Kg | | -0.15 | 0.15 | | | |
| WG268142LCSS | LCSS | 08/07/09 16:25 | PCN32909 | 247 | | 236.5 | mg/Kg | | 196 | 297 | | | |
| WG268142LCSSD | LCSSD | 08/07/09 16:28 | PCN32909 | 247 | | 262.1 | mg/Kg | | 196 | 297 | 10.3 | 20 | |
| L77197-01MS | MS | 08/07/09 16:35 | MS090529-3 | 25.05 | .31 | 26.665 | mg/Kg | 105.2 | 75 | 125 | | | |
| L77197-01MSD | MSD | 08/07/09 16:39 | MS090529-3 | 25.05 | .31 | 27.58 | mg/Kg | 108.9 | 75 | 125 | 3.37 | 20 | |

**Uranium, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268384** | | | | | | | | | | | | | |
| WG268384ICV | ICV | 08/10/09 17:45 | MS090727-2 | .05 | | .05085 | mg/L | 101.7 | 90 | 110 | | | |
| WG268384ICB | ICB | 08/10/09 17:47 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG268142PBS | PBS | 08/10/09 17:54 | | | | U | mg/Kg | | -0.15 | 0.15 | | | |
| L77197-01MS | MS | 08/10/09 17:58 | MS090529-3 | 12.5 | 1.19 | 14.705 | mg/Kg | 108.1 | 75 | 125 | | | |
| L77197-01MSD | MSD | 08/10/09 17:59 | MS090529-3 | 12.5 | 1.19 | 15.17 | mg/Kg | 111.8 | 75 | 125 | 3.11 | 20 | |

**Vanadium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.9342 | mg/L | 96.7 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 180 | | 169.69 | mg/Kg | | 142 | 218 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 180 | | 181.56 | mg/Kg | | 142 | 218 | 6.8 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 5.9 | 55.31 | mg/Kg | 97.8 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 5.9 | 54.14 | mg/Kg | 95.5 | 75 | 125 | 2.14 | 20 | |

**Zinc, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG268203** | | | | | | | | | | | | | |
| WG268203ICV | ICV | 08/06/09 22:04 | II090721-3 | 2 | | 1.926 | mg/L | 96.3 | 90 | 110 | | | |
| WG268203ICB | ICB | 08/06/09 22:07 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG268142PBS | PBS | 08/06/09 22:21 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG268142LCSS | LCSS | 08/06/09 22:24 | PCN32909 | 292 | | 258.7 | mg/Kg | | 231 | 353 | | | |
| WG268142LCSSD | LCSSD | 08/06/09 22:27 | PCN32909 | 292 | | 287.9 | mg/Kg | | 231 | 353 | 10.7 | 20 | |
| L77193-01MS | MS | 08/06/09 22:37 | II090730-2 | 50.5 | 203 | 251.3 | mg/Kg | 95.6 | 75 | 125 | | | |
| L77193-01MSD | MSD | 08/06/09 22:41 | II090730-2 | 50.5 | 203 | 233.3 | mg/Kg | 60 | 75 | 125 | 7.43 | 20 | M3 |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| **L77285-01** | WG268203 | Aluminum, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG268226 | Antimony, total (3050) | M6020 ICP-MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG268833 | Arsenic (TCLP) | M6010B ICP | D1 | Sample required dilution due to matrix. |
| | | | M6010B ICP | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |
| | WG268878 | Barium (TCLP) | M6010B ICP | B5 | Target analyte detected in prep / method blank at or above the method reporting limit, but below trigger level or MCL. |
| | WG268203 | Barium, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG268833 | Cadmium (TCLP) | M6010B ICP | D1 | Sample required dilution due to matrix. |
| | | | M6010B ICP | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |
| | WG268262 | Calcium, total (3050) | M6010B ICP | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | WG268833 | Chromium (TCLP) | M6010B ICP | D1 | Sample required dilution due to matrix. |
| | | | M6010B ICP | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |
| | WG268203 | Copper, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Iron, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG268833 | Lead (TCLP) | M6010B ICP | D1 | Sample required dilution due to matrix. |
| | | | M6010B ICP | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |
| | WG268203 | Manganese, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG269113 | Mercury (TCLP) | M7470 CVAA | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |
| | WG268203 | Nickel, total (3050) | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | WG268878 | Selenium (TCLP) | M6010B ICP | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |
| | WG268361 | Selenium, total (3050) | M7742 Modified, AA-Hydride | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG268833 | Silver (TCLP) | M6010B ICP | D1 | Sample required dilution due to matrix. |
| | | | M6010B ICP | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |
| | WG268203 | Sodium, total (3050) | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Vanadium, total (3050) | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Zinc, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | WG268317 | Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |

**Nu-West Industries, Inc.**
Project ID: 4800036485
Sample ID: SED POND 1

ACZ Sample ID: ***L77285-01***
Date Sampled: *07/31/09 11:00*
Date Received: *08/03/09*
Sample Matrix: *Soil*

## Base Neutral Acid Extractables by GC/MS

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG268269**
Analyst: djt
Extract Date: 08/04/09 17:39
Analysis Date: 08/06/09 15:43

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 120-82-1 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 2,4,5-Trichlorophenol | 95-95-4 | | U | 33.29 | | ug/Kg | 300 | 2000 |
| 2,4,6-Trichlorophenol | 88-06-2 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 2,4-Dichlorophenol | 120-83-2 | | U | 33.29 | * | ug/Kg | 70 | 300 |
| 2,4-Dimethylphenol | 105-67-9 | | U | 33.29 | * | ug/Kg | 100 | 700 |
| 2,4-Dinitrophenol | 51-28-5 | | U | 33.29 | * | ug/Kg | 700 | 3000 |
| 2,4-Dinitrotoluene | 121-14-2 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 2,6-Dinitrotoluene | 606-20-8 | | U | 33.29 | | ug/Kg | 300 | 2000 |
| 2-Chloronaphthalene | 91-58-7 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 2-Chlorophenol | 95-57-8 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 2-Methylnaphthalene | 91-57-6 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 2-Methylphenol | 95-48-7 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 2-Nitroaniline | 88-74-4 | | U | 33.29 | | ug/Kg | 300 | 2000 |
| 2-Nitrophenol | 88-75-5 | | U | 33.29 | | ug/Kg | 100 | 700 |
| 3- & 4-Methylphenol | 1319-77-3 | | U | 33.29 | * | ug/Kg | 70 | 300 |
| 3,3-Dichlorobenzidine | 91-94-1 | | U | 33.29 | * | ug/Kg | 100 | 700 |
| 3-Nitroaniline | 99-09-2 | | U | 33.29 | * | ug/Kg | 300 | 2000 |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | | U | 33.29 | * | ug/Kg | 300 | 2000 |
| 4-Bromophenyl phenyl ether | 101-55-3 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 4-Chloro-3-methylphenol | 59-50-7 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 4-Chloroaniline | 106-47-8 | | U | 33.29 | * | ug/Kg | 70 | 300 |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | | U | 33.29 | | ug/Kg | 70 | 300 |
| 4-Nitroaniline | 100-01-6 | | U | 33.29 | * | ug/Kg | 300 | 2000 |
| 4-Nitrophenol | 100-02-07 | | U | 33.29 | | ug/Kg | 300 | 2000 |
| Acenaphthene | 83-32-9 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Acenaphthylene | 208-96-8 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Aniline | 62-53-3 | | U | 33.29 | | ug/Kg | 100 | 700 |
| Anthracene | 120-12-7 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Azobenzene | 103-33-3 | | U | 33.29 | | ug/Kg | 300 | 2000 |
| Benzo(a)anthracene | 56-55-3 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Benzo(a)pyrene | 50-32-8 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Benzo(b)fluoranthene | 205-99-2 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 33.29 | | ug/Kg | 70 | 300 |
| Benzoic acid | 65-85-0 | | U | 33.29 | * | ug/Kg | 300 | 2000 |
| Benzyl alcohol | 100-51-6 | | U | 33.29 | * | ug/Kg | 70 | 300 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800036485
Sample ID: SED POND 1

ACZ Sample ID: ***L77285-01***
Date Sampled: *07/31/09 11:00*
Date Received: *08/03/09*
Sample Matrix: *Soil*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | 111-91-1 | U | 33.29 | | ug/Kg | 70 | 300 |
| Bis(2-chloroethyl) ether | 111-44-4 | U | 33.29 | * | ug/Kg | 70 | 300 |
| Bis(2-chloroisopropyl) ether | 108-60-1 | U | 33.29 | * | ug/Kg | 70 | 300 |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | U | 33.29 | | ug/Kg | 100 | 700 |
| Butyl benzyl phthalate | 85-68-7 | U | 33.29 | | ug/Kg | 70 | 300 |
| Chrysene | 218-01-9 | U | 33.29 | | ug/Kg | 70 | 300 |
| Dibenzo(a,h)anthracene | 53-70-3 | U | 33.29 | | ug/Kg | 70 | 300 |
| Dibenzofuran | 132-64-9 | U | 33.29 | * | ug/Kg | 70 | 300 |
| Diethylphthalate | 84-66-2 | U | 33.29 | | ug/Kg | 70 | 300 |
| Dimethyl phthalate | 131-11-3 | U | 33.29 | | ug/Kg | 70 | 300 |
| Di-n-butyl phthalate | 84-74-2 | U | 33.29 | | ug/Kg | 70 | 300 |
| Di-n-octyl phthalate | 117-84-0 | U | 33.29 | | ug/Kg | 70 | 300 |
| Fluoranthene | 206-44-0 | U | 33.29 | * | ug/Kg | 70 | 300 |
| Fluorene | 86-73-7 | U | 33.29 | | ug/Kg | 70 | 300 |
| Hexachlorobenzene | 118-74-1 | U | 33.29 | | ug/Kg | 70 | 300 |
| Hexachlorobutadiene | 87-68-3 | U | 33.29 | | ug/Kg | 70 | 300 |
| Hexachlorocyclopentadiene | 77-47-4 | U | 33.29 | * | ug/Kg | 70 | 300 |
| Hexachloroethane | 67-72-1 | U | 33.29 | | ug/Kg | 70 | 300 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | U | 33.29 | | ug/Kg | 70 | 300 |
| Isophorone | 78-59-1 | U | 33.29 | | ug/Kg | 70 | 300 |
| Naphthalene | 91-20-3 | U | 33.29 | * | ug/Kg | 70 | 300 |
| Nitrobenzene | 98-95-3 | U | 33.29 | * | ug/Kg | 70 | 300 |
| N-Nitrosodimethylamine | 62-75-9 | U | 33.29 | | ug/Kg | 70 | 300 |
| N-Nitrosodi-n-propylamine | 621-64-7 | U | 33.29 | | ug/Kg | 70 | 300 |
| N-Nitrosodiphenylamine | 86-30-6 | U | 33.29 | | ug/Kg | 70 | 300 |
| Pentachlorophenol | 87-86-5 | U | 33.29 | | ug/Kg | 300 | 2000 |
| Phenanthrene | 85-01-8 | U | 33.29 | | ug/Kg | 70 | 300 |
| Phenol | 108-95-2 | U | 33.29 | | ug/Kg | 100 | 700 |
| Pyrene | 129-00-0 | U | 33.29 | | ug/Kg | 70 | 300 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | 118-79-6 | 91.1 | 33.29 | | % | 45 | 111 |
| 2-Fluorobiphenyl | 321-60-8 | 89.9 | 33.29 | | % | 35 | 121 |
| 2-Fluorophenol | 367-12-4 | 71.3 | 33.29 | | % | 21 | 100 |
| Nitrobenzene-d5 | 4165-60-0 | 79.3 | 33.29 | | % | 36 | 117 |
| Phenol-d6 | 13127-88-3 | 78.2 | 33.29 | | % | 0 | 135 |
| Terphenyl-d14 | 1718-51-0 | 102.1 | 33.29 | | % | 10 | 151 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800036485
Sample ID: SED POND 1

ACZ Sample ID: ***L77285-01***
Date Sampled: *07/31/09 11:00*
Date Received: *08/03/09*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method:

**Workgroup: WG268392**
Analyst: mss
Extract Date:
Analysis Date: 08/10/09 18:04

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | 6 | J | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 5 | J | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | 4 | J | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |
| Chlorobenzene | 108-90-7 | | U | 1 | * | ug/Kg | 4 | 10 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800036485
Sample ID: SED POND 1

ACZ Sample ID: ***L77285-01***
Date Sampled: *07/31/09 11:00*
Date Received: *08/03/09*
Sample Matrix: *Soil*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chloroethane | 75-00-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | 6 | J | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | 5 | J | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | | U | 1 | * | ug/Kg | 4 | 10 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | 460-00-4 | 70.5 | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 103.9 | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 139.2 | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

## Report Header Explanations

| | |
|---|---|
| Batch | A distinct set of samples analyzed at a specific time |
| Found | Value of the QC Type of interest |
| Limit | Upper limit for RPD, in %. |
| Lower | Lower Recovery Limit, in % (except for LCSS, mg/Kg) |
| LCL | Lower Control Limit |
| MDL | Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations. |
| PCN/SCN | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| PQL | Practical Quantitation Limit |
| QC | True Value of the Control Sample or the amount added to the Spike |
| Rec | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) |
| RPD | Relative Percent Difference, calculation used for Duplicate QC Types |
| Upper | Upper Recovery Limit, in % (except for LCSS, mg/Kg) |
| UCL | Upper Control Limit |
| Sample | Value of the Sample of interest |

## QC Sample Types

| | | | |
|---|---|---|---|
| SURR | Surrogate | LFM | Laboratory Fortified Matrix |
| INTS | Internal Standard | LFMD | Laboratory Fortified Matrix Duplicate |
| DUP | Sample Duplicate | LRB | Laboratory Reagent Blank |
| LCSS | Laboratory Control Sample - Soil | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| LCSW | Laboratory Control Sample - Water | PBS | Prep Blank - Soil |
| LFB | Laboratory Fortified Blank | PBW | Prep Blank - Water |

## QC Sample Type Explanations

| | |
|---|---|
| Blanks | Verifies that there is no or minimal contamination in the prep method procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure. |
| Duplicates | Verifies the precision of the instrument and/or method. |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any. |

## ACZ Qualifiers (Qual)

| | |
|---|---|
| B | Analyte detected in daily blank |
| H | Analysis exceeded method hold time. |
| J | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity. |
| R | Poor spike recovery accepted because the other spike in the set fell within the given limits. |
| T | High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL. |
| U | The material was analyzed for, but was not detected above the level of the associated value. |
| | The associated value is either the sample quantitation limit or the sample detection limit. |
| V | High blank data accepted because sample concentration is 10 times higher than blank concentration |
| W | Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride. |
| X | Quality contreol sample is out of control. |
| Z | Poor spike recovery is accepted because sample concentration is four times greater than spike concentration. |
| P | Analyte concentration differs from second detector by more than 40%. |
| E | Analyte concentration is estimated due to result exceeding calibration range. |
| M | Analyte concentration is estimated due to matrix interferences. |

## Method References

| | |
|---|---|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983. |
| (2) | EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990. |
| (3) | EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990. |
| (5) | EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December, 1996. |
| (6) | Standard Methods for the Examination of Water and Wastewater, 19th edition (1995) & 20th edition (1998). |

## Comments

| | |
|---|---|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations. |
| (2) | Organic analyses are reported on an "as received" basis. |

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

## Base Neutral Acid Extractables by GC/MS

M8270C GC/MS

**WG268269**

**MS** **Sample ID: L77287-05MS** **PCN/SCN: OP090804-1-30G** **Analyzed: 08/06/09 14:14**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-METHYLNAPHTHALENE | 1666.7 | U | 1194 | ug/Kg | 71.6 | 70 | 130 | | | |
| ACENAPHTHENE | 1666.7 | U | 1391 | ug/Kg | 83.5 | 0 | 160 | | | |
| ACENAPHTHYLENE | 1666.7 | U | 1377 | ug/Kg | 82.6 | 70 | 130 | | | |
| ANTHRACENE | 1666.7 | U | 1463 | ug/Kg | 87.8 | 70 | 130 | | | |
| BENZO(A)ANTHRACENE | 1666.7 | U | 1475 | ug/Kg | 88.5 | 70 | 130 | | | |
| BENZO(A)PYRENE | 1666.7 | U | 1396 | ug/Kg | 83.8 | 70 | 130 | | | |
| BENZO(B)FLUORANTHENE | 1666.7 | U | 1328 | ug/Kg | 79.7 | 70 | 130 | | | |
| BENZO(G,H,I)PERYLENE | 1666.7 | U | 1365 | ug/Kg | 81.9 | 70 | 130 | | | |
| BENZO(K)FLUORANTHENE | 1666.7 | U | 1378 | ug/Kg | 82.7 | 70 | 130 | | | |
| CHRYSENE | 1666.7 | U | 1484 | ug/Kg | 89.0 | 70 | 130 | | | |
| DIBENZO(A,H)ANTHRACENE | 1666.7 | U | 1495 | ug/Kg | 89.7 | 70 | 130 | | | |
| FLUORANTHENE | 1667.5 | U | 1256 | ug/Kg | 75.3 | 70 | 130 | | | |
| FLUORENE | 1666.7 | U | 1328 | ug/Kg | 79.7 | 70 | 130 | | | |
| INDENO(1,2,3-CD)PYRENE | 1666.7 | U | 1462 | ug/Kg | 87.7 | 70 | 130 | | | |
| NAPHTHALENE | 1666.7 | U | 1114 | ug/Kg | 66.8 | 70 | 130 | | | M2 |
| PHENANTHRENE | 1666.7 | U | 1466 | ug/Kg | 88.0 | 70 | 130 | | | |
| PYRENE | 1668.3 | U | 1762 | ug/Kg | 105.6 | 0 | 157 | | | |
| 2,4,6-TRIBROMOPHENOL (surr) | | | | % | 94.4 | 0 | 159 | | | |
| 2-FLUOROBIPHENYL (surr) | | | | % | 82.9 | 0 | 170 | | | |
| 2-FLUOROPHENOL (surr) | | | | % | 59.6 | 25 | 121 | | | |
| NITROBENZENE-D5 (surr) | | | | % | 62.5 | 2 | 161 | | | |
| PHENOL-D6 (surr) | | | | % | 69.7 | 5 | 139 | | | |
| TERPHENYL-D14 (surr) | | | | % | 88.2 | 18 | 137 | | | |

**MSD** **Sample ID: L77287-05MSD** **PCN/SCN: OP090804-1-30G** **Analyzed: 08/06/09 14:44**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-METHYLNAPHTHALENE | 1666.7 | U | 1231 | ug/Kg | 73.9 | 70 | 130 | 3.05 | 20 | |
| ACENAPHTHENE | 1666.7 | U | 1372 | ug/Kg | 82.3 | 0 | 160 | 1.38 | 20 | |
| ACENAPHTHYLENE | 1666.7 | U | 1368 | ug/Kg | 82.1 | 70 | 130 | 0.66 | 20 | |
| ANTHRACENE | 1666.7 | U | 1422 | ug/Kg | 85.3 | 70 | 130 | 2.84 | 20 | |
| BENZO(A)ANTHRACENE | 1666.7 | U | 1479 | ug/Kg | 88.7 | 70 | 130 | 0.27 | 20 | |
| BENZO(A)PYRENE | 1666.7 | U | 1383 | ug/Kg | 83.0 | 70 | 130 | 0.94 | 20 | |
| BENZO(B)FLUORANTHENE | 1666.7 | U | 1373 | ug/Kg | 82.4 | 70 | 130 | 3.33 | 20 | |
| BENZO(G,H,I)PERYLENE | 1666.7 | U | 1272 | ug/Kg | 76.3 | 70 | 130 | 7.05 | 20 | |
| BENZO(K)FLUORANTHENE | 1666.7 | U | 1379 | ug/Kg | 82.7 | 70 | 130 | 0.07 | 20 | |
| CHRYSENE | 1666.7 | U | 1437 | ug/Kg | 86.2 | 70 | 130 | 3.22 | 20 | |
| DIBENZO(A,H)ANTHRACENE | 1666.7 | U | 1400 | ug/Kg | 84.0 | 70 | 130 | 6.56 | 20 | |
| FLUORANTHENE | 1667.5 | U | 1131 | ug/Kg | 67.8 | 70 | 130 | 10.47 | 20 | MA |
| FLUORENE | 1666.7 | U | 1314 | ug/Kg | 78.8 | 70 | 130 | 1.06 | 20 | |
| INDENO(1,2,3-CD)PYRENE | 1666.7 | U | 1371 | ug/Kg | 82.3 | 70 | 130 | 6.42 | 20 | |
| NAPHTHALENE | 1666.7 | U | 1115 | ug/Kg | 66.9 | 70 | 130 | 0.09 | 20 | M2 |
| PHENANTHRENE | 1666.7 | U | 1437 | ug/Kg | 86.2 | 70 | 130 | 2 | 20 | |
| PYRENE | 1668.3 | U | 1917 | ug/Kg | 114.9 | 0 | 157 | 8.43 | 20 | |
| 2,4,6-TRIBROMOPHENOL (surr) | | | | % | 97.0 | 0 | 159 | | | |

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| | | | | |
|---|---|---|---|---|
| 2-FLUOROBIPHENYL (surr) | % | 81.8 | 0 | 170 |
| 2-FLUOROPHENOL (surr) | % | 57.8 | 25 | 121 |
| NITROBENZENE-D5 (surr) | % | 65.5 | 2 | 161 |
| PHENOL-D6 (surr) | % | 75.6 | 5 | 139 |
| TERPHENYL-D14 (surr) | % | 98.5 | 18 | 137 |

**LCSS** **Sample ID: WG268092LCSS** **PCN/SCN: OP090804-1-30G** **Analyzed: 08/06/09 10:47**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | 1666.7 | | 1188 | ug/Kg | 71.3 | 57 | 130 | | | |
| 1,2-DICHLOROBENZENE | 1666.7 | | 1185 | ug/Kg | 71.1 | 70 | 130 | | | |
| 1,3-DICHLOROBENZENE | 1666.7 | | 1209 | ug/Kg | 72.5 | 70 | 130 | | | |
| 1,4-DICHLOROBENZENE | 1666.7 | | 1158 | ug/Kg | 69.5 | 51 | 130 | | | |
| 2,4,5-TRICHLOROPHENOL | 1666.7 | | 1220 | ug/Kg | 73.2 | 70 | 130 | | | |
| 2,4,6-TRICHLOROPHENOL | 1666.7 | | 1247 | ug/Kg | 74.8 | 70 | 130 | | | |
| 2,4-DICHLOROPHENOL | 1666.7 | | 1095 | ug/Kg | 65.7 | 70 | 130 | | | RL |
| 2,4-DIMETHYLPHENOL | 1666.7 | | 1070 | ug/Kg | 64.2 | 70 | 130 | | | RL |
| 2,4-DINITROPHENOL | 1666.7 | | 1030 | ug/Kg | 61.8 | 70 | 130 | | | N1 |
| 2,4-DINITROTOLUENE | 1667.5 | | 1119 | ug/Kg | 67.1 | 42 | 130 | | | |
| 2,6-DINITROTOLUENE | 1667.5 | | 1180 | ug/Kg | 70.8 | 70 | 130 | | | |
| 2-CHLORONAPHTHALENE | 1666.7 | | 1214 | ug/Kg | 72.8 | 70 | 130 | | | |
| 2-CHLOROPHENOL | 1666.7 | | 1122 | ug/Kg | 67.3 | 49 | 130 | | | |
| 2-METHYLNAPHTHALENE | 1666.7 | | 1125 | ug/Kg | 67.5 | 65 | 130 | | | |
| 2-METHYLPHENOL | 1666.7 | | 1093 | ug/Kg | 65.6 | 58 | 130 | | | |
| 2-NITROANILINE | 1666.7 | | 1310 | ug/Kg | 78.6 | 70 | 130 | | | |
| 2-NITROPHENOL | 1666.7 | | 1220 | ug/Kg | 73.2 | 70 | 130 | | | |
| 3- & 4-METHYLPHENOL | 1666.7 | | 1050 | ug/Kg | 63.0 | 70 | 130 | | | N1 |
| 3,3-DICHLOROBENZIDINE | 3333.3 | | 1930 | ug/Kg | 57.9 | 70 | 130 | | | R4 |
| 3-NITROANILINE | 1666.7 | | 890 | ug/Kg | 53.4 | 70 | 130 | | | N1 |
| 4,6-DINITRO-2-METHYLPHENOL | 1666.7 | | 960 | ug/Kg | 57.6 | 70 | 130 | | | N1 |
| 4-BROMOPHENYL PHENYL ETHER | 1666.7 | | 1471 | ug/Kg | 88.3 | 70 | 130 | | | |
| 4-CHLORO-3-METHYLPHENOL | 1666.7 | | 1117 | ug/Kg | 67.0 | 57 | 130 | | | |
| 4-CHLOROANILINE | 1666.7 | | 760 | ug/Kg | 45.6 | 70 | 130 | | | N1 |
| 4-CHLOROPHENYL PHENYL ETHER | 1666.7 | | 1171 | ug/Kg | 70.3 | 70 | 130 | | | |
| 4-NITROANILINE | 1666.7 | | 860 | ug/Kg | 51.6 | 70 | 130 | | | N1 |
| 4-NITROPHENOL | 1666.7 | | 950 | ug/Kg | 57.0 | 23 | 142 | | | |
| ACENAPHTHENE | 1666.7 | | 1229 | ug/Kg | 73.7 | 64 | 130 | | | |
| ACENAPHTHYLENE | 1666.7 | | 1214 | ug/Kg | 72.8 | 70 | 130 | | | |
| ANTHRACENE | 1666.7 | | 1373 | ug/Kg | 82.4 | 70 | 130 | | | |
| AZOBENZENE | 1666.7 | | 1280 | ug/Kg | 76.8 | 70 | 130 | | | |
| BENZO(A)ANTHRACENE | 1666.7 | | 1411 | ug/Kg | 84.7 | 70 | 130 | | | |
| BENZO(A)PYRENE | 1666.7 | | 1321 | ug/Kg | 79.3 | 70 | 130 | | | |
| BENZO(B)FLUORANTHENE | 1666.7 | | 1369 | ug/Kg | 82.1 | 70 | 130 | | | |
| BENZO(G,H,I)PERYLENE | 1666.7 | | 1207 | ug/Kg | 72.4 | 70 | 130 | | | |
| BENZO(K)FLUORANTHENE | 1666.7 | | 1436 | ug/Kg | 86.2 | 70 | 130 | | | |
| BENZOIC ACID | 2500 | | 1600 | ug/Kg | 64.0 | 70 | 130 | | | RL |
| BENZYL ALCOHOL | 1666.7 | | 1081 | ug/Kg | 64.9 | 70 | 130 | | | N1 |
| BIS(2-CHLOROETHOXY)METHANE | 1666.7 | | 1171 | ug/Kg | 70.3 | 70 | 130 | | | |
| BIS(2-CHLOROETHYL) ETHER | 1666.7 | | 1149 | ug/Kg | 68.9 | 70 | 130 | | | RL |
| BIS(2-CHLOROISOPROPYL) ETHER | 1666.7 | | 1052 | ug/Kg | 63.1 | 70 | 130 | | | RL |

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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| BIS(2-ETHYLHEXYL) PHTHALATE | 1668.3 | | 1599 | ug/Kg | 95.8 | 70 | 130 | | | |
| BUTYL BENZYL PHTHALATE | 1666.7 | | 1717 | ug/Kg | 103.0 | 70 | 130 | | | |
| CHRYSENE | 1666.7 | | 1410 | ug/Kg | 84.6 | 70 | 130 | | | |
| DIBENZO(A,H)ANTHRACENE | 1666.7 | | 1237 | ug/Kg | 74.2 | 70 | 130 | | | |
| DIBENZOFURAN | 1666.7 | | 1209 | ug/Kg | 72.5 | 75 | 130 | | | RL |
| DIETHYLPHTHALATE | 1668.3 | | 1185 | ug/Kg | 71.0 | 69 | 130 | | | |
| DIMETHYL PHTHALATE | 1666.7 | | 1206 | ug/Kg | 72.4 | 70 | 130 | | | |
| DI-N-BUTYL PHTHALATE | 1666.7 | | 1426 | ug/Kg | 85.6 | 70 | 130 | | | |
| DI-N-OCTYL PHTHALATE | 1666.7 | | 1387 | ug/Kg | 83.2 | 70 | 130 | | | |
| FLUORANTHENE | 1667.5 | | 1165 | ug/Kg | 69.9 | 70 | 130 | | | RL |
| FLUORENE | 1666.7 | | 1204 | ug/Kg | 72.2 | 70 | 130 | | | |
| HEXACHLOROBENZENE | 1666.7 | | 1497 | ug/Kg | 89.8 | 70 | 130 | | | |
| HEXACHLOROBUTADIENE | 1666.7 | | 1206 | ug/Kg | 72.4 | 70 | 130 | | | |
| HEXACHLOROCYCLOPENTADIENE | 1666.7 | | 872 | ug/Kg | 52.3 | 70 | 130 | | | N1 |
| HEXACHLOROETHANE | 1666.7 | | 1165 | ug/Kg | 69.9 | 70 | 130 | | | RL |
| INDENO(1,2,3-CD)PYRENE | 1666.7 | | 1239 | ug/Kg | 74.3 | 70 | 130 | | | |
| ISOPHORONE | 1666.7 | | 1218 | ug/Kg | 73.1 | 70 | 130 | | | |
| NAPHTHALENE | 1666.7 | | 1164 | ug/Kg | 69.8 | 63 | 130 | | | |
| NITROBENZENE | 1666.7 | | 1098 | ug/Kg | 65.9 | 70 | 130 | | | RL |
| N-NITROSODIMETHYLAMINE | 1666.7 | | 1203 | ug/Kg | 72.2 | 70 | 130 | | | |
| N-NITROSODI-N-PROPYLAMINE | 1667.5 | | 1088 | ug/Kg | 65.2 | 44 | 130 | | | |
| N-NITROSODIPHENYLAMINE | 1666.7 | | 1234 | ug/Kg | 74.0 | 70 | 130 | | | |
| PENTACHLOROPHENOL | 1666.7 | | 1100 | ug/Kg | 66.0 | 20 | 130 | | | |
| PHENANTHRENE | 1666.7 | | 1386 | ug/Kg | 83.2 | 70 | 130 | | | |
| PHENOL | 1666.7 | | 1040 | ug/Kg | 62.4 | 49 | 130 | | | |
| PYRENE | 1668.3 | | 1889 | ug/Kg | 113.2 | 75 | 130 | | | |
| 2,4,6-TRIBROMOPHENOL (surr) | | | | % | 93.7 | 0 | 159 | | | |
| 2-FLUOROBIPHENYL (surr) | | | | % | 73.8 | 0 | 170 | | | |
| 2-FLUOROPHENOL (surr) | | | | % | 63.8 | 25 | 121 | | | |
| NITROBENZENE-D5 (surr) | | | | % | 66.4 | 2 | 161 | | | |
| PHENOL-D6 (surr) | | | | % | 64.3 | 5 | 139 | | | |
| TERPHENYL-D14 (surr) | | | | % | 92.3 | 18 | 137 | | | |

**LCSSD** **Sample ID: WG268092LCSSD** **PCN/SCN: OP090804-1-30G** **Analyzed: 08/06/09 11:17**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | 1666.7 | | 1347 | ug/Kg | 80.8 | 57 | 130 | 12.5 | 20 | |
| 1,2-DICHLOROBENZENE | 1666.7 | | 1282 | ug/Kg | 76.9 | 70 | 130 | 7.9 | 20 | |
| 1,3-DICHLOROBENZENE | 1666.7 | | 1254 | ug/Kg | 75.2 | 70 | 130 | 3.7 | 20 | |
| 1,4-DICHLOROBENZENE | 1666.7 | | 1274 | ug/Kg | 76.4 | 51 | 130 | 9.5 | 20 | |
| 2,4,5-TRICHLOROPHENOL | 1666.7 | | 1380 | ug/Kg | 82.8 | 70 | 130 | 12.3 | 20 | |
| 2,4,6-TRICHLOROPHENOL | 1666.7 | | 1392 | ug/Kg | 83.5 | 70 | 130 | 11 | 20 | |
| 2,4-DICHLOROPHENOL | 1666.7 | | 1222 | ug/Kg | 73.3 | 70 | 130 | 11 | 20 | |
| 2,4-DIMETHYLPHENOL | 1666.7 | | 1190 | ug/Kg | 71.4 | 70 | 130 | 10.6 | 20 | |
| 2,4-DINITROPHENOL | 1666.7 | | 1140 | ug/Kg | 68.4 | 70 | 130 | 10.1 | 20 | N1 |
| 2,4-DINITROTOLUENE | 1667.5 | | 1231 | ug/Kg | 73.8 | 42 | 130 | 9.5 | 20 | |
| 2,6-DINITROTOLUENE | 1667.5 | | 1320 | ug/Kg | 79.2 | 70 | 130 | 11.2 | 20 | |
| 2-CHLORONAPHTHALENE | 1666.7 | | 1413 | ug/Kg | 84.8 | 70 | 130 | 15.2 | 20 | |
| 2-CHLOROPHENOL | 1666.7 | | 1166 | ug/Kg | 70.0 | 49 | 130 | 3.8 | 20 | |
| 2-METHYLNAPHTHALENE | 1666.7 | | 1251 | ug/Kg | 75.1 | 65 | 130 | 10.6 | 20 | |

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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2-METHYLPHENOL | 1666.7 | 1133 | ug/Kg | 68.0 | 58 | 130 | 3.6 | 20 | |
| 2-NITROANILINE | 1666.7 | 1380 | ug/Kg | 82.8 | 70 | 130 | 5.2 | 20 | |
| 2-NITROPHENOL | 1666.7 | 1370 | ug/Kg | 82.2 | 70 | 130 | 11.6 | 20 | |
| 3- & 4-METHYLPHENOL | 1666.7 | 1150 | ug/Kg | 69.0 | 70 | 130 | 9.1 | 20 | N1 |
| 3,3-DICHLOROBENZIDINE | 3333.3 | 2420 | ug/Kg | 72.6 | 70 | 130 | 22.5 | 20 | R4 |
| 3-NITROANILINE | 1666.7 | 950 | ug/Kg | 57.0 | 70 | 130 | 6.5 | 20 | N1 |
| 4,6-DINITRO-2-METHYLPHENOL | 1666.7 | 1070 | ug/Kg | 64.2 | 70 | 130 | 10.8 | 20 | N1 |
| 4-BROMOPHENYL PHENYL ETHER | 1666.7 | 1656 | ug/Kg | 99.4 | 70 | 130 | 11.8 | 20 | |
| 4-CHLORO-3-METHYLPHENOL | 1666.7 | 1252 | ug/Kg | 75.1 | 57 | 130 | 11.4 | 20 | |
| 4-CHLOROANILINE | 1666.7 | 800 | ug/Kg | 48.0 | 70 | 130 | 5.1 | 20 | N1 |
| 4-CHLOROPHENYL PHENYL ETHER | 1666.7 | 1307 | ug/Kg | 78.4 | 70 | 130 | 11 | 20 | |
| 4-NITROANILINE | 1666.7 | 940 | ug/Kg | 56.4 | 70 | 130 | 8.9 | 20 | N1 |
| 4-NITROPHENOL | 1666.7 | 1060 | ug/Kg | 63.6 | 23 | 142 | 10.9 | 20 | |
| ACENAPHTHENE | 1666.7 | 1393 | ug/Kg | 83.6 | 64 | 130 | 12.5 | 20 | |
| ACENAPHTHYLENE | 1666.7 | 1441 | ug/Kg | 86.5 | 70 | 130 | 17.1 | 20 | |
| ANTHRACENE | 1666.7 | 1512 | ug/Kg | 90.7 | 70 | 130 | 9.6 | 20 | |
| AZOBENZENE | 1666.7 | 1400 | ug/Kg | 84.0 | 70 | 130 | 9 | 20 | |
| BENZO(A)ANTHRACENE | 1666.7 | 1602 | ug/Kg | 96.1 | 70 | 130 | 12.7 | 20 | |
| BENZO(A)PYRENE | 1666.7 | 1500 | ug/Kg | 90.0 | 70 | 130 | 12.7 | 20 | |
| BENZO(B)FLUORANTHENE | 1666.7 | 1561 | ug/Kg | 93.7 | 70 | 130 | 13.1 | 20 | |
| BENZO(G,H,I)PERYLENE | 1666.7 | 1400 | ug/Kg | 84.0 | 70 | 130 | 14.8 | 20 | |
| BENZO(K)FLUORANTHENE | 1666.7 | 1676 | ug/Kg | 100.6 | 70 | 130 | 15.4 | 20 | |
| BENZOIC ACID | 2500 | 1820 | ug/Kg | 72.8 | 70 | 130 | 12.9 | 20 | |
| BENZYL ALCOHOL | 1666.7 | 1100 | ug/Kg | 66.0 | 70 | 130 | 1.7 | 20 | N1 |
| BIS(2-CHLOROETHOXY)METHANE | 1666.7 | 1262 | ug/Kg | 75.7 | 70 | 130 | 7.5 | 20 | |
| BIS(2-CHLOROETHYL) ETHER | 1666.7 | 1323 | ug/Kg | 79.4 | 70 | 130 | 14.1 | 20 | |
| BIS(2-CHLOROISOPROPYL) ETHER | 1666.7 | 1285 | ug/Kg | 77.1 | 70 | 130 | 19.9 | 20 | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 1668.3 | 1685 | ug/Kg | 101.0 | 70 | 130 | 5.2 | 20 | |
| BUTYL BENZYL PHTHALATE | 1666.7 | 1819 | ug/Kg | 109.1 | 70 | 130 | 5.8 | 20 | |
| CHRYSENE | 1666.7 | 1575 | ug/Kg | 94.5 | 70 | 130 | 11.1 | 20 | |
| DIBENZO(A,H)ANTHRACENE | 1666.7 | 1443 | ug/Kg | 86.6 | 70 | 130 | 15.4 | 20 | |
| DIBENZOFURAN | 1666.7 | 1349 | ug/Kg | 80.9 | 75 | 130 | 10.9 | 20 | |
| DIETHYLPHTHALATE | 1668.3 | 1309 | ug/Kg | 78.5 | 69 | 130 | 9.9 | 20 | |
| DIMETHYL PHTHALATE | 1666.7 | 1437 | ug/Kg | 86.2 | 70 | 130 | 17.5 | 20 | |
| DI-N-BUTYL PHTHALATE | 1666.7 | 1599 | ug/Kg | 95.9 | 70 | 130 | 11.4 | 20 | |
| DI-N-OCTYL PHTHALATE | 1666.7 | 1551 | ug/Kg | 93.1 | 70 | 130 | 11.2 | 20 | |
| FLUORANTHENE | 1667.5 | 1246 | ug/Kg | 74.7 | 70 | 130 | 6.7 | 20 | |
| FLUORENE | 1666.7 | 1329 | ug/Kg | 79.7 | 70 | 130 | 9.9 | 20 | |
| HEXACHLOROBENZENE | 1666.7 | 1647 | ug/Kg | 98.8 | 70 | 130 | 9.5 | 20 | |
| HEXACHLOROBUTADIENE | 1666.7 | 1362 | ug/Kg | 81.7 | 70 | 130 | 12.1 | 20 | |
| HEXACHLOROCYCLOPENTADIENE | 1666.7 | 1014 | ug/Kg | 60.8 | 70 | 130 | 15.1 | 20 | N1 |
| HEXACHLOROETHANE | 1666.7 | 1262 | ug/Kg | 75.7 | 70 | 130 | 8 | 20 | |
| INDENO(1,2,3-CD)PYRENE | 1666.7 | 1433 | ug/Kg | 86.0 | 70 | 130 | 14.5 | 20 | |
| ISOPHORONE | 1666.7 | 1393 | ug/Kg | 83.6 | 70 | 130 | 13.4 | 20 | |
| NAPHTHALENE | 1666.7 | 1294 | ug/Kg | 77.6 | 63 | 130 | 10.6 | 20 | |
| NITROBENZENE | 1666.7 | 1212 | ug/Kg | 72.7 | 70 | 130 | 9.9 | 20 | |
| N-NITROSODIMETHYLAMINE | 1666.7 | 1292 | ug/Kg | 77.5 | 70 | 130 | 7.1 | 20 | |
| N-NITROSODI-N-PROPYLAMINE | 1667.5 | 1188 | ug/Kg | 71.2 | 44 | 130 | 8.8 | 20 | |
| N-NITROSODIPHENYLAMINE | 1666.7 | 1358 | ug/Kg | 81.5 | 70 | 130 | 9.6 | 20 | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PENTACHLOROPHENOL | 1666.7 | 1190 | ug/Kg | 71.4 | 20 | 130 | 7.9 | 20 |
| PHENANTHRENE | 1666.7 | 1551 | ug/Kg | 93.1 | 70 | 130 | 11.2 | 20 |
| PHENOL | 1666.7 | 1150 | ug/Kg | 69.0 | 49 | 130 | 10 | 20 |
| PYRENE | 1668.3 | 2153 | ug/Kg | 129.1 | 75 | 130 | 13.1 | 20 |
| 2,4,6-TRIBROMOPHENOL (surr) | | | % | 101.8 | 0 | 159 | | |
| 2-FLUOROBIPHENYL (surr) | | | % | 87.9 | 0 | 170 | | |
| 2-FLUOROPHENOL (surr) | | | % | 70.2 | 25 | 121 | | |
| NITROBENZENE-D5 (surr) | | | % | 73.3 | 2 | 161 | | |
| PHENOL-D6 (surr) | | | % | 72.5 | 5 | 139 | | |
| TERPHENYL-D14 (surr) | | | % | 101.7 | 18 | 137 | | |

**PBS** **Sample ID: WG268092PBS** **Analyzed: 08/06/09 10:18**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 1,2-DICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 1,3-DICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 1,4-DICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 2,4,5-TRICHLOROPHENOL | | | U | ug/Kg | | -2000 | 2000 | | | |
| 2,4,6-TRICHLOROPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 2,4-DICHLOROPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 2,4-DIMETHYLPHENOL | | | U | ug/Kg | | -700 | 700 | | | |
| 2,4-DINITROPHENOL | | | U | ug/Kg | | -3000 | 3000 | | | |
| 2,4-DINITROTOLUENE | | | U | ug/Kg | | -300 | 300 | | | |
| 2,6-DINITROTOLUENE | | | U | ug/Kg | | -2000 | 2000 | | | |
| 2-CHLORONAPHTHALENE | | | U | ug/Kg | | -300 | 300 | | | |
| 2-CHLOROPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 2-METHYLNAPHTHALENE | | | U | ug/Kg | | -300 | 300 | | | |
| 2-METHYLPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 2-NITROANILINE | | | U | ug/Kg | | -2000 | 2000 | | | |
| 2-NITROPHENOL | | | U | ug/Kg | | -700 | 700 | | | |
| 3- & 4-METHYLPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 3,3-DICHLOROBENZIDINE | | | U | ug/Kg | | -700 | 700 | | | |
| 3-NITROANILINE | | | U | ug/Kg | | -2000 | 2000 | | | |
| 4,6-DINITRO-2-METHYLPHENOL | | | U | ug/Kg | | -2000 | 2000 | | | |
| 4-BROMOPHENYL PHENYL ETHER | | | U | ug/Kg | | -300 | 300 | | | |
| 4-CHLORO-3-METHYLPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 4-CHLOROANILINE | | | U | ug/Kg | | -300 | 300 | | | |
| 4-CHLOROPHENYL PHENYL ETHER | | | U | ug/Kg | | -300 | 300 | | | |
| 4-NITROANILINE | | | U | ug/Kg | | -2000 | 2000 | | | |
| 4-NITROPHENOL | | | U | ug/Kg | | -2000 | 2000 | | | |
| ACENAPHTHENE | | | U | ug/Kg | | -300 | 300 | | | |
| ACENAPHTHYLENE | | | U | ug/Kg | | -300 | 300 | | | |
| ANILINE | | | U | ug/Kg | | -700 | 700 | | | |
| ANTHRACENE | | | U | ug/Kg | | -300 | 300 | | | |
| AZOBENZENE | | | U | ug/Kg | | -2000 | 2000 | | | |
| BENZO(A)ANTHRACENE | | | U | ug/Kg | | -300 | 300 | | | |
| BENZO(A)PYRENE | | | U | ug/Kg | | -300 | 300 | | | |
| BENZO(B)FLUORANTHENE | | | U | ug/Kg | | -300 | 300 | | | |
| BENZO(G,H,I)PERYLENE | | | U | ug/Kg | | -300 | 300 | | | |

**Nu-West Industries, Inc.**

ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | |
|---|---|---|---|---|---|
| BENZO(K)FLUORANTHENE | U | ug/Kg | | -300 | 300 |
| BENZOIC ACID | U | ug/Kg | | -2000 | 2000 |
| BENZYL ALCOHOL | U | ug/Kg | | -300 | 300 |
| BIS(2-CHLOROETHOXY)METHANE | U | ug/Kg | | -300 | 300 |
| BIS(2-CHLOROETHYL) ETHER | U | ug/Kg | | -300 | 300 |
| BIS(2-CHLOROISOPROPYL) ETHER | U | ug/Kg | | -300 | 300 |
| BIS(2-ETHYLHEXYL) PHTHALATE | U | ug/Kg | | -300 | 300 |
| BUTYL BENZYL PHTHALATE | U | ug/Kg | | -300 | 300 |
| CHRYSENE | U | ug/Kg | | -300 | 300 |
| DIBENZO(A,H)ANTHRACENE | U | ug/Kg | | -300 | 300 |
| DIBENZOFURAN | U | ug/Kg | | -300 | 300 |
| DIETHYLPHTHALATE | U | ug/Kg | | -300 | 300 |
| DIMETHYL PHTHALATE | U | ug/Kg | | -300 | 300 |
| DI-N-BUTYL PHTHALATE | 139 | ug/Kg | | -300 | 300 |
| DI-N-OCTYL PHTHALATE | U | ug/Kg | | -300 | 300 |
| FLUORANTHENE | U | ug/Kg | | -300 | 300 |
| FLUORENE | U | ug/Kg | | -300 | 300 |
| HEXACHLOROBENZENE | U | ug/Kg | | -300 | 300 |
| HEXACHLOROBUTADIENE | U | ug/Kg | | -300 | 300 |
| HEXACHLOROCYCLOPENTADIENE | U | ug/Kg | | -300 | 300 |
| HEXACHLOROETHANE | U | ug/Kg | | -300 | 300 |
| INDENO(1,2,3-CD)PYRENE | U | ug/Kg | | -300 | 300 |
| ISOPHORONE | U | ug/Kg | | -300 | 300 |
| NAPHTHALENE | U | ug/Kg | | -300 | 300 |
| NITROBENZENE | U | ug/Kg | | -300 | 300 |
| N-NITROSODIMETHYLAMINE | U | ug/Kg | | -300 | 300 |
| N-NITROSODI-N-PROPYLAMINE | U | ug/Kg | | -300 | 300 |
| N-NITROSODIPHENYLAMINE | U | ug/Kg | | -300 | 300 |
| PENTACHLOROPHENOL | U | ug/Kg | | -2000 | 2000 |
| PHENANTHRENE | U | ug/Kg | | -300 | 300 |
| PHENOL | U | ug/Kg | | -700 | 700 |
| PYRENE | U | ug/Kg | | -300 | 300 |
| 2,4,6-TRIBROMOPHENOL (surr) | | % | 88.4 | 19 | 122 |
| 2-FLUOROBIPHENYL (surr) | | % | 85.1 | 30 | 115 |
| 2-FLUOROPHENOL (surr) | | % | 73.6 | 30 | 115 |
| NITROBENZENE-D5 (surr) | | % | 78.4 | 23 | 120 |
| PHENOL-D6 (surr) | | % | 78.2 | 24 | 113 |
| TERPHENYL-D14 (surr) | | % | 114.1 | 18 | 137 |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

**Volatile Organics by GC/MS** M8260B GC/MS

**WG268392**

**MS** **Sample ID: L77285-01MS** **PCN/SCN: VO072709-3-SPI** **Analyzed: 08/10/09 18:54**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | | 119.9 | ug/Kg | 119.9 | 70 | 130 | | | |
| 1,1,1-TRICHLOROETHANE | 100 | | 90 | ug/Kg | 90.0 | 70 | 130 | | | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | | 194.4 | ug/Kg | 194.4 | 70 | 130 | | | M1 |
| 1,1,2-TRICHLOROETHANE | 100 | | 107.8 | ug/Kg | 107.8 | 70 | 130 | | | |
| 1,1-DICHLOROETHANE | 100 | | 89.2 | ug/Kg | 89.2 | 70 | 130 | | | |
| 1,1-DICHLOROETHENE | 100 | | 73.9 | ug/Kg | 73.9 | 70 | 130 | | | |
| 1,1-DICHLOROPROPENE | 100 | | 56.8 | ug/Kg | 56.8 | 70 | 130 | | | M2 |
| 1,2,3-TRICHLOROBENZENE | 100 | | 37.5 | ug/Kg | 37.5 | 70 | 130 | | | M2 |
| 1,2,3-TRICHLOROPROPANE | 100 | | 177.9 | ug/Kg | 177.9 | 70 | 130 | | | M1 |
| 1,2,4-TRICHLOROBENZENE | 100 | | 37.2 | ug/Kg | 37.2 | 70 | 130 | | | M2 |
| 1,2,4-TRIMETHYLBENZENE | 100 | | 140.3 | ug/Kg | 140.3 | 70 | 130 | | | M1 |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | | 116.6 | ug/Kg | 116.6 | 70 | 130 | | | |
| 1,2-DIBROMOETHANE | 100 | | 71 | ug/Kg | 71.0 | 70 | 130 | | | |
| 1,2-DICHLOROBENZENE | 100 | | 84.6 | ug/Kg | 84.6 | 70 | 130 | | | |
| 1,2-DICHLOROETHANE | 100 | | 75.7 | ug/Kg | 75.7 | 70 | 130 | | | |
| 1,2-DICHLOROPROPANE | 100 | | 87.4 | ug/Kg | 87.4 | 70 | 130 | | | |
| 1,3,5-TRIMETHYLBENZENE | 100 | | 163.5 | ug/Kg | 163.5 | 70 | 130 | | | M1 |
| 1,3-DICHLOROBENZENE | 100 | | 78.8 | ug/Kg | 78.8 | 70 | 130 | | | |
| 1,3-DICHLOROPROPANE | 100 | | 89 | ug/Kg | 89.0 | 70 | 130 | | | |
| 1,4-DICHLOROBENZENE | 100 | | 69.4 | ug/Kg | 69.4 | 70 | 130 | | | MA |
| 2,2-DICHLOROPROPANE | 100 | | 101.6 | ug/Kg | 101.6 | 70 | 130 | | | |
| 2-BUTANONE | 200 | | 183 | ug/Kg | 91.5 | 70 | 130 | | | |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | | 63.1 | ug/Kg | 63.0 | 70 | 130 | | | M2 |
| 2-CHLOROTOLUENE | 100 | | 135.7 | ug/Kg | 135.7 | 70 | 130 | | | M1 |
| 2-HEXANONE | 200 | | 190 | ug/Kg | 95.0 | 70 | 130 | | | |
| 4-CHLOROTOLUENE | 100 | | 105.3 | ug/Kg | 105.3 | 70 | 130 | | | |
| 4-ISOPROPYLTOLUENE | 100 | | 135.3 | ug/Kg | 135.3 | 70 | 130 | | | M1 |
| 4-METHYL-2-PENTANONE | 200 | | 190 | ug/Kg | 95.0 | 70 | 130 | | | |
| ACETONE | 200 | | 182 | ug/Kg | 91.0 | 70 | 130 | | | |
| ACRYLONITRILE | 100 | | 100.7 | ug/Kg | 100.7 | 70 | 130 | | | |
| BENZENE | 100 | | 82.1 | ug/Kg | 82.1 | 70 | 130 | | | |
| BROMOBENZENE | 100 | | 104 | ug/Kg | 104.0 | 70 | 130 | | | |
| BROMOCHLOROMETHANE | 100 | | 82 | ug/Kg | 82.0 | 70 | 130 | | | |
| BROMODICHLOROMETHANE | 100 | | 76.3 | ug/Kg | 76.3 | 70 | 130 | | | |
| BROMOFORM | 100 | | 71.7 | ug/Kg | 71.7 | 70 | 130 | | | |
| BROMOMETHANE | 99.5 | | 108.3 | ug/Kg | 108.9 | 70 | 130 | | | |
| CARBON DISULFIDE | 100 | | 80.7 | ug/Kg | 80.7 | 70 | 130 | | | |
| CARBON TETRACHLORIDE | 100 | | 85 | ug/Kg | 85.0 | 70 | 130 | | | |
| CHLOROBENZENE | 100 | | 72.3 | ug/Kg | 72.3 | 70 | 130 | | | |
| CHLOROETHANE | 99 | | 112.1 | ug/Kg | 113.2 | 70 | 130 | | | |
| CHLOROFORM | 100 | | 85.1 | ug/Kg | 85.1 | 70 | 130 | | | |
| CHLOROMETHANE | 100.6 | | 128.9 | ug/Kg | 128.2 | 70 | 130 | | | |
| CIS-1,2-DICHLOROETHENE | 100 | | 79.6 | ug/Kg | 79.6 | 70 | 130 | | | |
| CIS-1,3-DICHLOROPROPENE | 100 | | 55.4 | ug/Kg | 55.4 | 70 | 130 | | | M2 |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DIBROMOCHLOROMETHANE | 100 | 93 | ug/Kg | 93.0 | 70 | 130 | | |
| DIBROMOMETHANE | 100 | 67.5 | ug/Kg | 67.5 | 70 | 130 | | MA |
| DICHLORODIFLUOROMETHANE | 100 | 111.1 | ug/Kg | 111.1 | 70 | 130 | | |
| ETHYLBENZENE | 100 | 85.5 | ug/Kg | 85.5 | 70 | 130 | | |
| HEXACHLOROBUTADIENE | 100 | 92.3 | ug/Kg | 92.3 | 70 | 130 | | |
| ISOPROPYLBENZENE | 100 | 93.3 | ug/Kg | 93.3 | 70 | 130 | | |
| M P XYLENE | 200 | 170 | ug/Kg | 85.0 | 70 | 130 | | |
| METHYL TERT BUTYL ETHER | 100 | 113 | ug/Kg | 113.0 | 70 | 130 | | |
| METHYLENE CHLORIDE | 100 | 95.7 | ug/Kg | 95.7 | 70 | 130 | | |
| NAPHTHALENE | 100 | 46.2 | ug/Kg | 46.2 | 70 | 130 | | M2 |
| N-BUTYLBENZENE | 100 | 88.7 | ug/Kg | 88.7 | 70 | 130 | | |
| N-PROPYLBENZENE | 100 | 128.2 | ug/Kg | 128.2 | 70 | 130 | | |
| O XYLENE | 100 | 97.4 | ug/Kg | 97.4 | 70 | 130 | | |
| SEC-BUTYLBENZENE | 100 | 138.5 | ug/Kg | 118.5 | 70 | 130 | | |
| STYRENE | 100 | 64.4 | ug/Kg | 64.4 | 70 | 130 | | MA |
| TERT-BUTYLBENZENE | 100 | 209.6 | ug/Kg | 209.6 | 70 | 130 | | M1 |
| TETRACHLOROETHENE | 100 | 58.9 | ug/Kg | 58.9 | 70 | 130 | | M2 |
| TOLUENE | 100 | 97.9 | ug/Kg | 97.9 | 70 | 130 | | |
| TRANS-1,2-DICHLOROETHENE | 100 | 74.9 | ug/Kg | 74.9 | 70 | 130 | | |
| TRANS-1,3-DICHLOROPROPENE | 100 | 60.6 | ug/Kg | 60.6 | 70 | 130 | | M2 |
| TRICHLOROETHENE | 100 | 60.7 | ug/Kg | 60.7 | 70 | 130 | | M2 |
| TRICHLOROFLUOROMETHANE | 100.8 | 87.8 | ug/Kg | 87.1 | 70 | 130 | | |
| VINYL ACETATE | 100 | 4.4 | ug/Kg | 4.4 | 70 | 130 | | M2 |
| VINYL CHLORIDE | 100.8 | 104.7 | ug/Kg | 103.9 | 70 | 130 | | |
| BROMOFLUOROBENZENE (surr) | | | % | 72.7 | 70 | 130 | | |
| DIBROMOFLUOROMETHANE (surr) | | | % | 104.5 | 70 | 130 | | |
| TOLUENE-D8 (surr) | | | % | 134.0 | 70 | 130 | | SA |

**MSD** **Sample ID: L77285-01MSD** **PCN/SCN: VO072709-3-SPI** **Analyzed: 08/10/09 19:19**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | | 132 | ug/Kg | 132.0 | 70 | 130 | 9.61 | 30 | MA |
| 1,1,1-TRICHLOROETHANE | 100 | | 99 | ug/Kg | 99.0 | 70 | 130 | 9.52 | 30 | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | | 214.3 | ug/Kg | 214.3 | 70 | 130 | 9.74 | 30 | M1 |
| 1,1,2-TRICHLOROETHANE | 100 | | 114.6 | ug/Kg | 114.6 | 70 | 130 | 6.12 | 30 | |
| 1,1-DICHLOROETHANE | 100 | | 94.7 | ug/Kg | 94.7 | 70 | 130 | 5.98 | 30 | |
| 1,1-DICHLOROETHENE | 100 | | 81.1 | ug/Kg | 81.1 | 70 | 130 | 9.29 | 30 | |
| 1,1-DICHLOROPROPENE | 100 | | 61.2 | ug/Kg | 61.2 | 70 | 130 | 7.46 | 30 | M2 |
| 1,2,3-TRICHLOROBENZENE | 100 | | 45.9 | ug/Kg | 45.9 | 70 | 130 | 20.14 | 30 | M2 |
| 1,2,3-TRICHLOROPROPANE | 100 | | 194.9 | ug/Kg | 194.9 | 70 | 130 | 9.12 | 30 | M1 |
| 1,2,4-TRICHLOROBENZENE | 100 | | 47.6 | ug/Kg | 47.6 | 70 | 130 | 24.53 | 30 | M2 |
| 1,2,4-TRIMETHYLBENZENE | 100 | | 161 | ug/Kg | 161.0 | 70 | 130 | 13.74 | 30 | M1 |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | | 128.5 | ug/Kg | 128.5 | 70 | 130 | 9.71 | 30 | |
| 1,2-DIBROMOETHANE | 100 | | 73.8 | ug/Kg | 73.8 | 70 | 130 | 3.87 | 30 | |
| 1,2-DICHLOROBENZENE | 100 | | 99.1 | ug/Kg | 99.1 | 70 | 130 | 15.79 | 30 | |
| 1,2-DICHLOROETHANE | 100 | | 78.6 | ug/Kg | 78.6 | 70 | 130 | 3.76 | 30 | |
| 1,2-DICHLOROPROPANE | 100 | | 91 | ug/Kg | 91.0 | 70 | 130 | 4.04 | 30 | |
| 1,3,5-TRIMETHYLBENZENE | 100 | | 187.6 | ug/Kg | 187.6 | 70 | 130 | 13.73 | 30 | M1 |
| 1,3-DICHLOROBENZENE | 100 | | 94 | ug/Kg | 94.0 | 70 | 130 | 17.59 | 30 | |
| 1,3-DICHLOROPROPANE | 100 | | 94.1 | ug/Kg | 94.1 | 70 | 130 | 5.57 | 30 | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-DICHLOROBENZENE | 100 | 83.4 | ug/Kg | 83.4 | 70 | 130 | 18.32 | 30 | |
| 2,2-DICHLOROPROPANE | 100 | 112.3 | ug/Kg | 112.3 | 70 | 130 | 10 | 30 | |
| 2-BUTANONE | 200 | 189 | ug/Kg | 94.5 | 70 | 130 | 3.23 | 30 | |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | 61.4 | ug/Kg | 61.3 | 70 | 130 | 2.73 | 30 | M2 |
| 2-CHLOROTOLUENE | 100 | 156.2 | ug/Kg | 156.2 | 70 | 130 | 14.05 | 30 | M1 |
| 2-HEXANONE | 200 | 200 | ug/Kg | 100.0 | 70 | 130 | 5.13 | 30 | |
| 4-CHLOROTOLUENE | 100 | 124 | ug/Kg | 124.0 | 70 | 130 | 16.31 | 30 | |
| 4-ISOPROPYLTOLUENE | 100 | 159.1 | ug/Kg | 159.1 | 70 | 130 | 16.17 | 30 | M1 |
| 4-METHYL-2-PENTANONE | 200 | 199 | ug/Kg | 99.5 | 70 | 130 | 4.63 | 30 | |
| ACETONE | 200 | 192 | ug/Kg | 96.0 | 70 | 130 | 5.35 | 30 | |
| ACRYLONITRILE | 100 | 107.1 | ug/Kg | 107.1 | 70 | 130 | 6.16 | 30 | |
| BENZENE | 100 | 86.2 | ug/Kg | 86.2 | 70 | 130 | 4.87 | 30 | |
| BROMOBENZENE | 100 | 117.3 | ug/Kg | 117.3 | 70 | 130 | 12.02 | 30 | |
| BROMOCHLOROMETHANE | 100 | 86.9 | ug/Kg | 86.9 | 70 | 130 | 5.8 | 30 | |
| BROMODICHLOROMETHANE | 100 | 79.4 | ug/Kg | 79.4 | 70 | 130 | 3.98 | 30 | |
| BROMOFORM | 100 | 74.8 | ug/Kg | 74.8 | 70 | 130 | 4.23 | 30 | |
| BROMOMETHANE | 99.5 | 115.1 | ug/Kg | 115.7 | 70 | 130 | 6.09 | 30 | |
| CARBON DISULFIDE | 100 | 90.8 | ug/Kg | 90.8 | 70 | 130 | 11.78 | 30 | |
| CARBON TETRACHLORIDE | 100 | 93 | ug/Kg | 93.0 | 70 | 130 | 8.99 | 30 | |
| CHLOROBENZENE | 100 | 78.8 | ug/Kg | 78.8 | 70 | 130 | 8.6 | 30 | |
| CHLOROETHANE | 99 | 123.4 | ug/Kg | 124.6 | 70 | 130 | 9.6 | 30 | |
| CHLOROFORM | 100 | 89.4 | ug/Kg | 89.4 | 70 | 130 | 4.93 | 30 | |
| CHLOROMETHANE | 100.6 | 138.3 | ug/Kg | 137.5 | 70 | 130 | 7.04 | 30 | MA |
| CIS-1,2-DICHLOROETHENE | 100 | 84.9 | ug/Kg | 84.9 | 70 | 130 | 6.44 | 30 | |
| CIS-1,3-DICHLOROPROPENE | 100 | 57.4 | ug/Kg | 57.4 | 70 | 130 | 3.55 | 30 | M2 |
| DIBROMOCHLOROMETHANE | 100 | 98 | ug/Kg | 98.0 | 70 | 130 | 5.24 | 30 | |
| DIBROMOMETHANE | 100 | 70.1 | ug/Kg | 70.1 | 70 | 130 | 3.78 | 30 | |
| DICHLORODIFLUOROMETHANE | 100 | 124.7 | ug/Kg | 124.7 | 70 | 130 | 11.54 | 30 | |
| ETHYLBENZENE | 100 | 94.8 | ug/Kg | 94.8 | 70 | 130 | 10.32 | 30 | |
| HEXACHLOROBUTADIENE | 100 | 111.8 | ug/Kg | 111.8 | 70 | 130 | 19.11 | 30 | |
| ISOPROPYLBENZENE | 100 | 104.2 | ug/Kg | 104.2 | 70 | 130 | 11.04 | 30 | |
| M P XYLENE | 200 | 188 | ug/Kg | 94.0 | 70 | 130 | 10.06 | 30 | |
| METHYL TERT BUTYL ETHER | 100 | 118.3 | ug/Kg | 118.3 | 70 | 130 | 4.58 | 30 | |
| METHYLENE CHLORIDE | 100 | 102.7 | ug/Kg | 102.7 | 70 | 130 | 7.06 | 30 | |
| NAPHTHALENE | 100 | 51.9 | ug/Kg | 51.9 | 70 | 130 | 11.62 | 30 | M2 |
| N-BUTYLBENZENE | 100 | 111.4 | ug/Kg | 111.4 | 70 | 130 | 22.69 | 30 | |
| N-PROPYLBENZENE | 100 | 151.2 | ug/Kg | 151.2 | 70 | 130 | 16.46 | 30 | MA |
| O XYLENE | 100 | 107 | ug/Kg | 107.0 | 70 | 130 | 9.39 | 30 | |
| SEC-BUTYLBENZENE | 100 | 170.5 | ug/Kg | 150.5 | 70 | 130 | 20.71 | 30 | MA |
| STYRENE | 100 | 70.4 | ug/Kg | 70.4 | 70 | 130 | 8.9 | 30 | |
| TERT-BUTYLBENZENE | 100 | 238.6 | ug/Kg | 238.6 | 70 | 130 | 12.94 | 30 | M1 |
| TETRACHLOROETHENE | 100 | 67.9 | ug/Kg | 67.9 | 70 | 130 | 14.2 | 30 | M2 |
| TOLUENE | 100 | 107.5 | ug/Kg | 107.5 | 70 | 130 | 9.35 | 30 | |
| TRANS-1,2-DICHLOROETHENE | 100 | 81.8 | ug/Kg | 81.8 | 70 | 130 | 8.81 | 30 | |
| TRANS-1,3-DICHLOROPROPENE | 100 | 64.6 | ug/Kg | 64.6 | 70 | 130 | 6.39 | 30 | M2 |
| TRICHLOROETHENE | 100 | 64.7 | ug/Kg | 64.7 | 70 | 130 | 6.38 | 30 | M2 |
| TRICHLOROFLUOROMETHANE | 100.8 | 97.9 | ug/Kg | 97.2 | 70 | 130 | 10.88 | 30 | |
| VINYL ACETATE | 100 | 4.4 | ug/Kg | 4.4 | 70 | 130 | 0 | 30 | M2 |
| VINYL CHLORIDE | 100.8 | 118.2 | ug/Kg | 117.3 | 70 | 130 | 12.11 | 30 | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | | |
|---|---|---|---|---|---|---|
| BROMOFLUOROBENZENE (surr) | % | 71.5 | 70 | 130 | | |
| DIBROMOFLUOROMETHANE (surr) | % | 105.4 | 70 | 130 | | |
| TOLUENE-D8 (surr) | % | 138.7 | 70 | 130 | | SA |

**LCSS** **Sample ID: WG268392LCSS** **PCN/SCN: VO072709-3-SPI** **Analyzed: 08/10/09 17:14**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | | 104.7 | ug/Kg | 104.7 | 70 | 130 | | | |
| 1,1,1-TRICHLOROETHANE | 100 | | 98 | ug/Kg | 98.0 | 70 | 130 | | | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | | 101.4 | ug/Kg | 101.4 | 70 | 130 | | | |
| 1,1,2-TRICHLOROETHANE | 100 | | 101.5 | ug/Kg | 101.5 | 70 | 130 | | | |
| 1,1-DICHLOROETHANE | 100 | | 101 | ug/Kg | 101.0 | 70 | 130 | | | |
| 1,1-DICHLOROETHENE | 100 | | 96.9 | ug/Kg | 96.9 | 70 | 130 | | | |
| 1,1-DICHLOROPROPENE | 100 | | 98.7 | ug/Kg | 98.7 | 70 | 130 | | | |
| 1,2,3-TRICHLOROBENZENE | 100 | | 102.9 | ug/Kg | 102.9 | 70 | 130 | | | |
| 1,2,3-TRICHLOROPROPANE | 100 | | 97.9 | ug/Kg | 97.9 | 70 | 130 | | | |
| 1,2,4-TRICHLOROBENZENE | 100 | | 103.1 | ug/Kg | 103.1 | 70 | 130 | | | |
| 1,2,4-TRIMETHYLBENZENE | 100 | | 104 | ug/Kg | 104.0 | 70 | 130 | | | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | | 103.6 | ug/Kg | 103.6 | 70 | 130 | | | |
| 1,2-DIBROMOETHANE | 100 | | 102.3 | ug/Kg | 102.3 | 70 | 130 | | | |
| 1,2-DICHLOROBENZENE | 100 | | 101 | ug/Kg | 101.0 | 70 | 130 | | | |
| 1,2-DICHLOROETHANE | 100 | | 100.5 | ug/Kg | 100.5 | 70 | 130 | | | |
| 1,2-DICHLOROPROPANE | 100 | | 101.8 | ug/Kg | 101.8 | 70 | 130 | | | |
| 1,3,5-TRIMETHYLBENZENE | 100 | | 104.5 | ug/Kg | 104.5 | 70 | 130 | | | |
| 1,3-DICHLOROBENZENE | 100 | | 102.9 | ug/Kg | 102.9 | 70 | 130 | | | |
| 1,3-DICHLOROPROPANE | 100 | | 99.8 | ug/Kg | 99.8 | 70 | 130 | | | |
| 1,4-DICHLOROBENZENE | 100 | | 101.6 | ug/Kg | 101.6 | 70 | 130 | | | |
| 2,2-DICHLOROPROPANE | 100 | | 105.4 | ug/Kg | 105.4 | 70 | 130 | | | |
| 2-BUTANONE | 200 | | 191 | ug/Kg | 95.5 | 70 | 130 | | | |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | | 103.9 | ug/Kg | 103.8 | 70 | 130 | | | |
| 2-CHLOROTOLUENE | 100 | | 102.2 | ug/Kg | 102.2 | 70 | 130 | | | |
| 2-HEXANONE | 200 | | 197 | ug/Kg | 98.5 | 70 | 130 | | | |
| 4-CHLOROTOLUENE | 100 | | 102.3 | ug/Kg | 102.3 | 70 | 130 | | | |
| 4-ISOPROPYLTOLUENE | 100 | | 107.5 | ug/Kg | 107.5 | 70 | 130 | | | |
| 4-METHYL-2-PENTANONE | 200 | | 204 | ug/Kg | 102.0 | 70 | 130 | | | |
| ACETONE | 200 | | 171 | ug/Kg | 85.5 | 70 | 130 | | | |
| ACRYLONITRILE | 100 | | 100 | ug/Kg | 100.0 | 70 | 130 | | | |
| BENZENE | 100 | | 103.8 | ug/Kg | 103.8 | 70 | 130 | | | |
| BROMOBENZENE | 100 | | 99 | ug/Kg | 99.0 | 70 | 130 | | | |
| BROMOCHLOROMETHANE | 100 | | 99.7 | ug/Kg | 99.7 | 70 | 130 | | | |
| BROMODICHLOROMETHANE | 100 | | 101.8 | ug/Kg | 101.8 | 70 | 130 | | | |
| BROMOFORM | 100 | | 100 | ug/Kg | 100.0 | 70 | 130 | | | |
| BROMOMETHANE | 99.5 | | 102.9 | ug/Kg | 103.5 | 70 | 130 | | | |
| CARBON DISULFIDE | 100 | | 111.2 | ug/Kg | 111.2 | 70 | 130 | | | |
| CARBON TETRACHLORIDE | 100 | | 98 | ug/Kg | 98.0 | 70 | 130 | | | |
| CHLOROBENZENE | 100 | | 102.5 | ug/Kg | 102.5 | 70 | 130 | | | |
| CHLOROETHANE | 99 | | 114.9 | ug/Kg | 116.1 | 70 | 130 | | | |
| CHLOROFORM | 100 | | 102.6 | ug/Kg | 102.6 | 70 | 130 | | | |
| CHLOROMETHANE | 100.6 | | 116.1 | ug/Kg | 115.5 | 70 | 130 | | | |
| CIS-1,2-DICHLOROETHENE | 100 | | 102.5 | ug/Kg | 102.5 | 70 | 130 | | | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CIS-1,3-DICHLOROPROPENE | 100 | | 101.6 | ug/Kg | 101.6 | 70 | 130 |
| DIBROMOCHLOROMETHANE | 100 | | 104.4 | ug/Kg | 104.4 | 70 | 130 |
| DIBROMOMETHANE | 100 | | 101.6 | ug/Kg | 101.6 | 70 | 130 |
| DICHLORODIFLUOROMETHANE | 100 | | 119.4 | ug/Kg | 119.4 | 70 | 130 |
| ETHYLBENZENE | 100 | | 105.8 | ug/Kg | 105.8 | 70 | 130 |
| HEXACHLOROBUTADIENE | 100 | | 105 | ug/Kg | 105.0 | 70 | 130 |
| ISOPROPYLBENZENE | 100 | | 107.5 | ug/Kg | 107.5 | 70 | 130 |
| M P XYLENE | 200 | | 211 | ug/Kg | 105.5 | 70 | 130 |
| METHYL TERT BUTYL ETHER | 100 | | 101.4 | ug/Kg | 101.4 | 70 | 130 |
| METHYLENE CHLORIDE | 100 | | 98.3 | ug/Kg | 98.3 | 70 | 130 |
| NAPHTHALENE | 100 | | 100.3 | ug/Kg | 100.3 | 70 | 130 |
| N-BUTYLBENZENE | 100 | | 108.1 | ug/Kg | 108.1 | 70 | 130 |
| N-PROPYLBENZENE | 100 | | 105.2 | ug/Kg | 105.2 | 70 | 130 |
| O XYLENE | 100 | | 104 | ug/Kg | 104.0 | 70 | 130 |
| SEC-BUTYLBENZENE | 100 | | 97 | ug/Kg | 97.0 | 70 | 130 |
| STYRENE | 100 | | 107.4 | ug/Kg | 107.4 | 70 | 130 |
| TERT-BUTYLBENZENE | 100 | | 111 | ug/Kg | 111.0 | 70 | 130 |
| TETRACHLOROETHENE | 100 | | 85 | ug/Kg | 85.0 | 70 | 130 |
| TOLUENE | 100 | | 104.3 | ug/Kg | 104.3 | 70 | 130 |
| TRANS-1,2-DICHLOROETHENE | 100 | | 104 | ug/Kg | 104.0 | 70 | 130 |
| TRANS-1,3-DICHLOROPROPENE | 100 | | 104.7 | ug/Kg | 104.7 | 70 | 130 |
| TRICHLOROETHENE | 100 | | 105.1 | ug/Kg | 105.1 | 70 | 130 |
| TRICHLOROFLUOROMETHANE | 100.8 | | 98.9 | ug/Kg | 98.2 | 70 | 130 |
| VINYL ACETATE | 100 | | 113.2 | ug/Kg | 113.2 | 70 | 130 |
| VINYL CHLORIDE | 100.8 | | 105.3 | ug/Kg | 104.5 | 70 | 130 |
| BROMOFLUOROBENZENE (surr) | | | | % | 101.6 | 70 | 130 |
| DIBROMOFLUOROMETHANE (surr) | | | | % | 100.8 | 70 | 130 |
| TOLUENE-D8 (surr) | | | | % | 100.0 | 70 | 130 |

**LCSSD** **Sample ID: WG268392LCSSD** **PCN/SCN: VO072709-3-SPI** **Analyzed: 08/10/09 17:39**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | | 103.1 | ug/Kg | 103.1 | 70 | 130 | 1.5 | 20 | |
| 1,1,1-TRICHLOROETHANE | 100 | | 97 | ug/Kg | 97.0 | 70 | 130 | 1 | 20 | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | | 105.1 | ug/Kg | 105.1 | 70 | 130 | 3.6 | 20 | |
| 1,1,2-TRICHLOROETHANE | 100 | | 102.6 | ug/Kg | 102.6 | 70 | 130 | 1.1 | 20 | |
| 1,1-DICHLOROETHANE | 100 | | 101.5 | ug/Kg | 101.5 | 70 | 130 | 0.5 | 20 | |
| 1,1-DICHLOROETHENE | 100 | | 96.3 | ug/Kg | 96.3 | 70 | 130 | 0.6 | 20 | |
| 1,1-DICHLOROPROPENE | 100 | | 96.6 | ug/Kg | 96.6 | 70 | 130 | 2.2 | 20 | |
| 1,2,3-TRICHLOROBENZENE | 100 | | 104 | ug/Kg | 104.0 | 70 | 130 | 1.1 | 20 | |
| 1,2,3-TRICHLOROPROPANE | 100 | | 102 | ug/Kg | 102.0 | 70 | 130 | 4.1 | 20 | |
| 1,2,4-TRICHLOROBENZENE | 100 | | 104 | ug/Kg | 104.0 | 70 | 130 | 0.9 | 20 | |
| 1,2,4-TRIMETHYLBENZENE | 100 | | 106 | ug/Kg | 106.0 | 70 | 130 | 1.9 | 20 | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | | 104.1 | ug/Kg | 104.1 | 70 | 130 | 0.5 | 20 | |
| 1,2-DIBROMOETHANE | 100 | | 102.6 | ug/Kg | 102.6 | 70 | 130 | 0.3 | 20 | |
| 1,2-DICHLOROBENZENE | 100 | | 101.3 | ug/Kg | 101.3 | 70 | 130 | 0.3 | 20 | |
| 1,2-DICHLOROETHANE | 100 | | 100.6 | ug/Kg | 100.6 | 70 | 130 | 0.1 | 20 | |
| 1,2-DICHLOROPROPANE | 100 | | 103 | ug/Kg | 103.0 | 70 | 130 | 1.2 | 20 | |
| 1,3,5-TRIMETHYLBENZENE | 100 | | 106.9 | ug/Kg | 106.9 | 70 | 130 | 2.3 | 20 | |
| 1,3-DICHLOROBENZENE | 100 | | 102.5 | ug/Kg | 102.5 | 70 | 130 | 0.4 | 20 | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,3-DICHLOROPROPANE | 100 | 100.8 | ug/Kg | 100.8 | 70 | 130 | 1 | 20 |
| 1,4-DICHLOROBENZENE | 100 | 101.2 | ug/Kg | 101.2 | 70 | 130 | 0.4 | 20 |
| 2,2-DICHLOROPROPANE | 100 | 106.4 | ug/Kg | 106.4 | 70 | 130 | 0.9 | 20 |
| 2-BUTANONE | 200 | 190 | ug/Kg | 95.0 | 70 | 130 | 0.5 | 20 |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | 110.3 | ug/Kg | 110.2 | 70 | 130 | 6 | 20 |
| 2-CHLOROTOLUENE | 100 | 104.8 | ug/Kg | 104.8 | 70 | 130 | 2.5 | 20 |
| 2-HEXANONE | 200 | 202 | ug/Kg | 101.0 | 70 | 130 | 2.5 | 20 |
| 4-CHLOROTOLUENE | 100 | 103.8 | ug/Kg | 103.8 | 70 | 130 | 1.5 | 20 |
| 4-ISOPROPYLTOLUENE | 100 | 108.7 | ug/Kg | 108.7 | 70 | 130 | 1.1 | 20 |
| 4-METHYL-2-PENTANONE | 200 | 209 | ug/Kg | 104.5 | 70 | 130 | 2.4 | 20 |
| ACETONE | 200 | 172 | ug/Kg | 86.0 | 70 | 130 | 0.6 | 20 |
| ACRYLONITRILE | 100 | 100.7 | ug/Kg | 100.7 | 70 | 130 | 0.7 | 20 |
| BENZENE | 100 | 103.8 | ug/Kg | 103.8 | 70 | 130 | 0 | 20 |
| BROMOBENZENE | 100 | 101.1 | ug/Kg | 101.1 | 70 | 130 | 2.1 | 20 |
| BROMOCHLOROMETHANE | 100 | 100.4 | ug/Kg | 100.4 | 70 | 130 | 0.7 | 20 |
| BROMODICHLOROMETHANE | 100 | 102.7 | ug/Kg | 102.7 | 70 | 130 | 0.9 | 20 |
| BROMOFORM | 100 | 99 | ug/Kg | 99.0 | 70 | 130 | 1 | 20 |
| BROMOMETHANE | 99.5 | 105.4 | ug/Kg | 106.0 | 70 | 130 | 2.4 | 20 |
| CARBON DISULFIDE | 100 | 111.3 | ug/Kg | 111.3 | 70 | 130 | 0.1 | 20 |
| CARBON TETRACHLORIDE | 100 | 97 | ug/Kg | 97.0 | 70 | 130 | 1 | 20 |
| CHLOROBENZENE | 100 | 102.5 | ug/Kg | 102.5 | 70 | 130 | 0 | 20 |
| CHLOROETHANE | 99 | 116.8 | ug/Kg | 118.0 | 70 | 130 | 1.6 | 20 |
| CHLOROFORM | 100 | 102.6 | ug/Kg | 102.6 | 70 | 130 | 0 | 20 |
| CHLOROMETHANE | 100.6 | 123.3 | ug/Kg | 122.6 | 70 | 130 | 6 | 20 |
| CIS-1,2-DICHLOROETHENE | 100 | 102.9 | ug/Kg | 102.9 | 70 | 130 | 0.4 | 20 |
| CIS-1,3-DICHLOROPROPENE | 100 | 103.9 | ug/Kg | 103.9 | 70 | 130 | 2.2 | 20 |
| DIBROMOCHLOROMETHANE | 100 | 104.8 | ug/Kg | 104.8 | 70 | 130 | 0.4 | 20 |
| DIBROMOMETHANE | 100 | 101.6 | ug/Kg | 101.6 | 70 | 130 | 0 | 20 |
| DICHLORODIFLUOROMETHANE | 100 | 119 | ug/Kg | 119.0 | 70 | 130 | 0.3 | 20 |
| ETHYLBENZENE | 100 | 105 | ug/Kg | 105.0 | 70 | 130 | 0.8 | 20 |
| HEXACHLOROBUTADIENE | 100 | 107.4 | ug/Kg | 107.4 | 70 | 130 | 2.3 | 20 |
| ISOPROPYLBENZENE | 100 | 105.7 | ug/Kg | 105.7 | 70 | 130 | 1.7 | 20 |
| M P XYLENE | 200 | 209 | ug/Kg | 104.5 | 70 | 130 | 1 | 20 |
| METHYL TERT BUTYL ETHER | 100 | 101.7 | ug/Kg | 101.7 | 70 | 130 | 0.3 | 20 |
| METHYLENE CHLORIDE | 100 | 98.7 | ug/Kg | 98.7 | 70 | 130 | 0.4 | 20 |
| NAPHTHALENE | 100 | 103.7 | ug/Kg | 103.7 | 70 | 130 | 3.3 | 20 |
| N-BUTYLBENZENE | 100 | 109.2 | ug/Kg | 109.2 | 70 | 130 | 1 | 20 |
| N-PROPYLBENZENE | 100 | 107.6 | ug/Kg | 107.6 | 70 | 130 | 2.3 | 20 |
| O XYLENE | 100 | 103.3 | ug/Kg | 103.3 | 70 | 130 | 0.7 | 20 |
| SEC-BUTYLBENZENE | 100 | 98.6 | ug/Kg | 98.6 | 70 | 130 | 1.6 | 20 |
| STYRENE | 100 | 106 | ug/Kg | 106.0 | 70 | 130 | 1.3 | 20 |
| TERT-BUTYLBENZENE | 100 | 109.7 | ug/Kg | 109.7 | 70 | 130 | 1.2 | 20 |
| TETRACHLOROETHENE | 100 | 91.2 | ug/Kg | 91.2 | 70 | 130 | 7 | 20 |
| TOLUENE | 100 | 103.6 | ug/Kg | 103.6 | 70 | 130 | 0.7 | 20 |
| TRANS-1,2-DICHLOROETHENE | 100 | 104 | ug/Kg | 104.0 | 70 | 130 | 0 | 20 |
| TRANS-1,3-DICHLOROPROPENE | 100 | 106.4 | ug/Kg | 106.4 | 70 | 130 | 1.6 | 20 |
| TRICHLOROETHENE | 100 | 104.4 | ug/Kg | 104.4 | 70 | 130 | 0.7 | 20 |
| TRICHLOROFLUOROMETHANE | 100.8 | 98.4 | ug/Kg | 97.7 | 70 | 130 | 0.5 | 20 |
| VINYL ACETATE | 100 | 107.7 | ug/Kg | 107.7 | 70 | 130 | 5 | 20 |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VINYL CHLORIDE | 100.8 | 105.2 | ug/Kg | 104.4 | 70 | 130 | 0.1 | 20 |
| BROMOFLUOROBENZENE (surr) | | | % | 98.5 | 70 | 130 | | |
| DIBROMOFLUOROMETHANE (surr) | | | % | 99.6 | 70 | 130 | | |
| TOLUENE-D8 (surr) | | | % | 99.8 | 70 | 130 | | |

**PBS** **Sample ID: WG268392PBS** **Analyzed: 08/10/09 16:49**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,1,1-TRICHLOROETHANE | | | U | ug/Kg | | -30 | 30 | | | |
| 1,1,2,2-TETRACHLOROETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,1,2-TRICHLOROETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,1-DICHLOROETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,1-DICHLOROETHENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,1-DICHLOROPROPENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2,3-TRICHLOROBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2,3-TRICHLOROPROPANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2,4-TRICHLOROBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2,4-TRIMETHYLBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2-DIBROMO-3-CHLOROPROPANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2-DIBROMOETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2-DICHLOROBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2-DICHLOROETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,2-DICHLOROPROPANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,3,5-TRIMETHYLBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,3-DICHLOROBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,3-DICHLOROPROPANE | | | U | ug/Kg | | -10 | 10 | | | |
| 1,4-DICHLOROBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| 2,2-DICHLOROPROPANE | | | U | ug/Kg | | -10 | 10 | | | |
| 2-BUTANONE | | | U | ug/Kg | | -30 | 30 | | | |
| 2-CHLOROETHYL VINYL ETHER | | | U | ug/Kg | | -30 | 30 | | | |
| 2-CHLOROTOLUENE | | | U | ug/Kg | | -10 | 10 | | | |
| 2-HEXANONE | | | U | ug/Kg | | -30 | 30 | | | |
| 4-CHLOROTOLUENE | | | U | ug/Kg | | -10 | 10 | | | |
| 4-ISOPROPYLTOLUENE | | | U | ug/Kg | | -10 | 10 | | | |
| 4-METHYL-2-PENTANONE | | | U | ug/Kg | | -100 | 100 | | | |
| ACETONE | | | U | ug/Kg | | -30 | 30 | | | |
| ACRYLONITRILE | | | U | ug/Kg | | -10 | 10 | | | |
| BENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| BROMOBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| BROMOCHLOROMETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| BROMODICHLOROMETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| BROMOFORM | | | U | ug/Kg | | -10 | 10 | | | |
| BROMOMETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| CARBON DISULFIDE | | | U | ug/Kg | | -10 | 10 | | | |
| CARBON TETRACHLORIDE | | | U | ug/Kg | | -30 | 30 | | | |
| CHLOROBENZENE | | | U | ug/Kg | | -10 | 10 | | | |
| CHLOROETHANE | | | U | ug/Kg | | -10 | 10 | | | |
| CHLOROFORM | | | U | ug/Kg | | -10 | 10 | | | |
| CHLOROMETHANE | | | U | ug/Kg | | -10 | 10 | | | |

**Nu-West Industries, Inc.**

ACZ Project ID: ***L77285***

Project ID: SED POND 1

| | | | | | |
|---|---|---|---|---|---|
| CIS-1,2-DICHLOROETHENE | U | ug/Kg | | -10 | 10 |
| CIS-1,3-DICHLOROPROPENE | U | ug/Kg | | -10 | 10 |
| DIBROMOCHLOROMETHANE | U | ug/Kg | | -10 | 10 |
| DIBROMOMETHANE | U | ug/Kg | | -10 | 10 |
| DICHLORODIFLUOROMETHANE | U | ug/Kg | | -20 | 20 |
| ETHYLBENZENE | U | ug/Kg | | -10 | 10 |
| HEXACHLOROBUTADIENE | U | ug/Kg | | -10 | 10 |
| ISOPROPYLBENZENE | U | ug/Kg | | -10 | 10 |
| M P XYLENE | U | ug/Kg | | -30 | 30 |
| METHYL TERT BUTYL ETHER | U | ug/Kg | | -10 | 10 |
| METHYLENE CHLORIDE | U | ug/Kg | | -10 | 10 |
| NAPHTHALENE | U | ug/Kg | | -10 | 10 |
| N-BUTYLBENZENE | U | ug/Kg | | -10 | 10 |
| N-PROPYLBENZENE | U | ug/Kg | | -10 | 10 |
| O XYLENE | U | ug/Kg | | -10 | 10 |
| SEC-BUTYLBENZENE | 4.9 | ug/Kg | | -10 | 10 |
| STYRENE | U | ug/Kg | | -10 | 10 |
| TERT-BUTYLBENZENE | U | ug/Kg | | -10 | 10 |
| TETRACHLOROETHENE | U | ug/Kg | | -10 | 10 |
| TOLUENE | U | ug/Kg | | -10 | 10 |
| TRANS-1,2-DICHLOROETHENE | U | ug/Kg | | -10 | 10 |
| TRANS-1,3-DICHLOROPROPENE | U | ug/Kg | | -10 | 10 |
| TRICHLOROETHENE | U | ug/Kg | | -20 | 20 |
| TRICHLOROFLUOROMETHANE | U | ug/Kg | | -10 | 10 |
| VINYL ACETATE | U | ug/Kg | | -10 | 10 |
| VINYL CHLORIDE | U | ug/Kg | | -10 | 10 |
| BROMOFLUOROBENZENE (surr) | | % | 99.5 | 70 | 130 |
| DIBROMOFLUOROMETHANE (surr) | | % | 96.1 | 70 | 130 |
| TOLUENE-D8 (surr) | | % | 99.8 | 70 | 130 |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| **L77285-01** | WG268269 | 2,4-Dichlorophenol | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | 2,4-Dimethylphenol | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | 2,4-Dinitrophenol | M8270C GC/MS | N1 | See Case Narrative. |
| | | 3- & 4-Methylphenol | M8270C GC/MS | N1 | See Case Narrative. |
| | | 3,3-Dichlorobenzidine | M8270C GC/MS | R4 | RPD for a spike and spike duplicate exceeded the method or laboratory acceptance limit. At a minimum, one spike recovery met acceptance criteria. |
| | | 3-Nitroaniline | M8270C GC/MS | N1 | See Case Narrative. |
| | | 4,6-Dinitro-2-methylphenol | M8270C GC/MS | N1 | See Case Narrative. |
| | | 4-Chloroaniline | M8270C GC/MS | N1 | See Case Narrative. |
| | | 4-Nitroaniline | M8270C GC/MS | N1 | See Case Narrative. |
| | | Benzoic acid | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Benzyl alcohol | M8270C GC/MS | N1 | See Case Narrative. |
| | | | M8270C GC/MS | VD | CCV recovery was outside of the acceptance limits. CCC and SPCC compounds met the method acceptance criteria. |
| | | Bis(2-chloroethyl) ether | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Bis(2-chloroisopropyl) ether | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Dibenzofuran | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Fluoranthene | M8270C GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Hexachlorocyclopentadiene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Hexachloroethane | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Naphthalene | M8270C GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Nitrobenzene | M8270C GC/MS | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | WG268392 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,1,1,2-Tetrachloroethane | M8260B GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | 1,1,2,2-Tetrachloroethane | M8260B GC/MS | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 1,1-Dichloropropene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 1,2,3-Trichloropropane | M8260B GC/MS | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 1,2,4-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 1,2,4-Trimethylbenzene | M8260B GC/MS | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | 1,3,5-Trimethylbenzene | M8260B GC/MS | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 1,4-Dichlorobenzene | M8260B GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | 2-Chloroethyl vinyl ether | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 2-Chlorotoluene | M8260B GC/MS | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | 4-Isopropyltoluene | M8260B GC/MS | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Chloromethane | M8260B GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| | | cis-1,3-Dichloropropene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Dibromomethane | M8260B GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Dichlorodifluoromethane | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | n-Propylbenzene | M8260B GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | sec-Butylbenzene | M8260B GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | Styrene | M8260B GC/MS | MA | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | tert-Butylbenzene | M8260B GC/MS | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Tetrachloroethene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Toluene-d8 | M8260B GC/MS | SA | Surrogate recovery was outside acceptance limits due to matrix interference. |
| | | trans-1,3-Dichloropropene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Trichloroethene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |

**Nu-West Industries, Inc.**
Project ID: 4800036485
Sample ID: SED POND 1
Locator:

ACZ Sample ID: ***L77285-01***
Date Sampled: *07/31/09 11:00*
Date Received: *08/03/09*
Sample Matrix: *Soil*

Radium 226 + Alpha Emitting Radium Isotopes (3050) Prep Method:
M9315

| Parameter | Measure Date | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|---|---|---|---|---|---|---|---|---|
| Radium 226 + Alpha | 08/21/09 9:11 | | 14 | 1.4 | 1.3 | pCi/g | | jjg |

Radium 228 (3050) Prep Method:
M9320

| Parameter | Measure Date | Prep Date | Result | Error(+/-) | LLD | Units | XQ | Analyst |
|---|---|---|---|---|---|---|---|---|
| Radium 228 (3050) | 08/26/09 15:35 | | 1.4 | 1 | 2.8 | pCi/g | | jjg |

## Report Header Explanations

| | |
|---|---|
| Batch | A distinct set of samples analyzed at a specific time |
| Error(+/-) | Calculated sample specific uncertainty |
| Found | Value of the QC Type of interest |
| Limit | Upper limit for RPD, in %. |
| LCL | Lower Control Limit, in % (except for LCSS, mg/Kg) |
| LLD | Calculated sample specific Lower Limit of Detection |
| PCN/SCN | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| PQL | Practical Quantitation Limit |
| QC | True Value of the Control Sample or the amount added to the Spike |
| Rec | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) |
| RER | Relative Error Ratio, calculation used for Dup. QC taking into account the error factor. |
| UCL | Upper Control Limit, in % (except for LCSS, mg/Kg) |
| Sample | Value of the Sample of interest |

## QC Sample Types

| | | | |
|---|---|---|---|
| DUP | Sample Duplicate | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| LCSS | Laboratory Control Sample - Soil | PBS | Prep Blank - Soil |
| LCSW | Laboratory Control Sample - Water | PBW | Prep Blank - Water |

## QC Sample Type Explanations

| | |
|---|---|
| Blanks | Verifies that there is no or minimal contamination in the prep method procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure. |
| Duplicates | Verifies the precision of the instrument and/or method. |
| Matrix Spikes | Determines sample matrix interferences, if any. |

## ACZ Qualifiers (Qual)

| | |
|---|---|
| H | Analysis exceeded method hold time. |
| R | Poor spike recovery accepted because the other spike in the set fell within the given limits. |
| T | High Replicate Error Ratio (RER) accepted because sample concentrations are less than 10x the MDL. |
| U | No nuclides detected above the Lower Limit of Detection (LLD) |
| V | High blank data accepted because sample concentration is 10 times higher than blank concentration |
| X | QC is out of control. See Case Narrative. |
| Z | Poor spike recovery is accepted because sample concentration is four times greater than spike concentration. |

## Method Prefix Reference

| | |
|---|---|
| M | EPA methodology, including those under SDWA, CWA, and RCRA |
| SM | Standard Methods for the Examination of Water and Wastewater, 19th edition (1995) & 20th edition (1998). |
| D | ASTM |
| RP | DOE |
| ESM | DOE/ESM |

## Comments

| | |
|---|---|
| (1) | Solid matrices are reported on a dry weight basis. |
| (2) | Preparation method: "Method" indicates preparation defined in analytical method. |
| (3) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations. |

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

**Nu-West Industries, Inc.**
Project ID: 4800036485

ACZ Project ID: ***L77285***

**Radium 226 + Alpha Emitting Radium** M9315 pCi/g

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Error | LLD | Found | Error | LLD | Rec | Lower | Upper | RPD/RER | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG269306** | | | | | | | | | | | | | | | | |
| WG268824PBS | PBS | 08/21/09 | | | | | | .27 | 0.32 | 1.5 | | | 3 | | | |
| WG268824LCSS | LCSS | 08/21/09 | RC090709-1 | 47.83 | | | | 46 | 2.7 | 1.4 | 96.2 | 81 | 123 | | | |
| L77197-01DUP | DUP-RER | 08/21/09 | | | 2.9 | 0.74 | 1.5 | 2.3 | 0.58 | 1.2 | | | | 0.64 | 2 | |
| L77285-01MS | MS | 08/21/09 | RC090709-1 | 48.81 | 14 | 1.4 | 1.3 | 61 | 2.9 | 1.2 | 96.3 | 81 | 123 | | | |

**Radium 228 (3050)** M9320 pCi/g

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Error | LLD | Found | Error | LLD | Rec | Lower | Upper | RPD/RER | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG269351** | | | | | | | | | | | | | | | | |
| WG268937PBS | PBS | 08/26/09 | | | | | | .46 | 0.89 | 2.7 | | | 5.4 | | | |
| WG268937LCSS | LCSS | 08/26/09 | RC081219-1 | 28 | | | | 26 | 2.3 | 2.7 | 92.9 | 49 | 132 | | | |
| L77197-01DUP | DUP-RER | 08/26/09 | | | 1 | 1 | 2.7 | 1.7 | 0.98 | 2.7 | | | | 0.5 | 2 | |
| L77285-01MS | MS | 08/26/09 | RC081219-1 | 28.57 | 1.4 | 1 | 2.8 | 26 | 2.3 | 2.8 | 86.1 | 49 | 132 | | | |

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# RadChem Extended Qualifier Report

**Nu-West Industries, Inc.**

ACZ Project ID: ***L77285***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|

No extended qualifiers associated with this analysis

**Nu-West Industries, Inc.** ACZ Project ID: ***L77285***

Metals Analysis

**The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.**

| | |
|---|---|
| Selenium, total (3050) | M7742 Modified, AA-Hydride |
| Uranium, total (3050) | M6020 ICP-MS |

Soil Analysis

**The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.**

| | |
|---|---|
| Solids, Percent | CLPSOW390, PART F, D-98 |

Wet Chemistry

**The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.**

| | |
|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) |

**ACZ Laboratories, Inc.**
*2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493*

# Sample Receipt

**Nu-West Industries, Inc.**
4800036485

| | |
|---|---|
| ACZ Project ID: | L77285 |
| Date Received: | 8/3/2009 |
| Received By: | |
| Date Printed: | 8/4/2009 |

## Receipt Verification

| | YES | NO | NA |
|---|---|---|---|
| 1) Does this project require special handling procedures such as CLP protocol? | | | X |
| 2) Are the custody seals on the cooler intact? | | | X |
| 3) Are the custody seals on the sample containers intact? | | | X |
| 4) Is there a Chain of Custody or other directive shipping papers present? | X | | |
| 5) Is the Chain of Custody complete? | X | | |
| 6) Is the Chain of Custody in agreement with the samples received? | X | | |
| 7) Is there enough sample for all requested analyses? | X | | |
| 8) Are all samples within holding times for requested analyses? | X | | |
| 9) Were all sample containers received intact? | X | | |
| 10) Are the temperature blanks present? | | | X |
| 11) Is the trip blank for Cyanide present? | | | X |
| 12) Is the trip blank for VOA present? | | | X |
| 13) Are samples requiring no headspace, headspace free? | | | X |
| 14) Do the samples that require a Foreign Soils Permit have one? | | | X |

## Exceptions: If you answered no to any of the above questions, please describe

N/A

## Contact (For any discrepancies, the client must be contacted)

N/A

## Shipping Containers

| Cooler Id | Temp (°C) | Rad (µR/hr) |
|---|---|---|
| NA8961 | 19.5 | 13 |
| | | |
| | | |
| | | |

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

## Notes

**ACZ Laboratories, Inc.**
*2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493*

# Sample Receipt

**Nu-West Industries, Inc.**
4800036485

ACZ Project ID: L77285
Date Received: 8/3/2009
Received By:

## Sample Container Preservation

| SAMPLE | CLIENT ID | R < 2 | G < 2 | BK < 2 | Y< 2 | YG< 2 | B< 2 | O < 2 | T >12 | N/A | RAD | ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L77285-01 | SED POND 1 | | | | | | | | | X | | |

## Sample Container Preservation Legend

| Abbreviation | Description | Container Type | Preservative/Limits |
|---|---|---|---|
| R | Raw/Nitric | RED | pH must be < 2 |
| B | Filtered/Sulfuric | BLUE | pH must be < 2 |
| BK | Filtered/Nitric | BLACK | pH must be < 2 |
| G | Filtered/Nitric | GREEN | pH must be < 2 |
| O | Raw/Sulfuric | ORANGE | pH must be < 2 |
| P | Raw/NaOH | PURPLE | pH must be > 12 * |
| T | Raw/NaOH Zinc Acetate | TAN | pH must be > 12 |
| Y | Raw/Sulfuric | YELLOW | pH must be < 2 |
| YG | Raw/Sulfuric | YELLOW GLASS | pH must be < 2 |
| N/A | No preservative needed | Not applicable | |
| RAD | Gamma/Beta dose rate | Not applicable | must be < 250 µR/hr |

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

**ACZ Laboratories, Inc.** L77285

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# CHAIN of CUSTODY

| | |
|---|---|
| Name: Mitch Hart | Address: 3010 CONDA ROAD |
| Company: Nu-West | SODA SPRINGS, IDAHO |
| E-mail: mhart@agrium.com | Telephone: 303-883-1184 |

| | |
|---|---|
| Name: JB BROWN | E-mail: STRATER4@COMCAST.NET |
| Company: GET LLC | Telephone: 801-463-0902 |

| | |
|---|---|
| Name: ACCOUNTS PAYABLE - AGRIUM | Address: 3010 CONDA ROAD |
| Company: AGRIUM | SODA SPRINGS, IDAHO 83276 |
| E-mail: | Telephone: 208-547-4381 |

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [x] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]

If yes, please include state forms. Results will be reported to PQL.

Quote #: GEORGETOWN - SW-3-1 2009

Project/PO #: 4800036485

Reporting state for compliance testing: NO

Sampler's Name: JB BROWN

Are any samples NRC licensable material? Yes No

| SAMPLE IDENTIFICATION | DATE TIME | MATRIX | # of Containers | SEE TABLE NO Hg | Table 2-1 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SED POND 1 | 7-31-09 11:00 | SO | 1 | x | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

COPY OF REPORT TO : JBWILLIA@AGRIUM.COM

USE QUOTE "OFF-PLANT-SITE" 08/03/06

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

| RELINQUISHED BY | DATE TIME | RECEIVED BY | DATE TIME |
|---|---|---|---|
| JB BROWN | 7-31-09 12:00 | [signature] | 8-3-09 10:39 |
| | | | |
| | | | |

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

**TABLE 2-1**
**GEORGETOWN CANYON**
**SOIL AND SEDIMENT**
**PARAMETERS AND ANALYTICAL METHODS -1**

| Analyte | Analytical Method | Holding Time | Method Detection Limit |
|---|---|---|---|
| | | | |
| pH | SW-846 9045 | Immediate | 0.1 (units) |
| Phosphorous (Total) | EPA M365.4 | 28 Days | 0.01 Percent |
| | | | |
| **Metals List** | | | |
| Metals Digestion | EPA M3050B | | |
| Aluminum | EPA Method 200.7 ICP | 6 Months | 3 mg/kg |
| Arsenic | EPA Method 200.8 ICP/MS | 6 Months | 4 mg/kg |
| Antimony | EPA Method 200.8 ICP/MS | 6 Months | 0.02 mg/kg |
| Barium | EPA Method 200.7 ICP | 6 Months | 0.3 mg/kg |
| Beryllium | EPA Method 200.7 ICP | 6 Months | 0.2 mg/kg |
| Cadmium | EPA Method 200.7 ICP | 6 Months | 0.3 mg/kg |
| Calcium | EPA Method 200.7 ICP | 6 Months | 20 mg/kg |
| Chromium | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Copper | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Iron | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Magnesium | EPA Method 200.7 ICP | 6 Months | 20 mg/kg |
| Manganese | EPA Method 200.7 ICP | 6 Months | 0.5 mg/kg |
| Molybdenum | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| ~~Mercury~~ | ~~EPA Method 200.8 ICP/MS~~ | ~~28 days~~ | ~~0.005 mg/kg~~ |
| Nickel | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Potassium | EPA Method 200.7 ICP | 6 Months | 30 mg/kg |
| Lead | EPA Method 200.8 ICP/MS | 6 Months | 4 mg/kg |
| Selenium | SM 3500, Se Hydride AA | 6 Months | 0.1mg/kg |
| Sodium | EPA Method 200.7 ICP | 6 Months | 30 mg/kg |
| Silver | EPA Method 200.8 ICP/MS | 6 Months | 0.5 mg/kg |
| Thallium | EPA Method 200.8 ICP/MS | 6 Months | 0.2 mg/kg |
| Vanadium | EPA Method 200.7 ICP | 6 Months | 0.5 mg/kg |
| Zinc | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| TCLP Metals (GTSED-7 Only) | EPA Method M1311 Digestion EPA Method 6010 B ICP and EPA Method M7470 CVAA | 6 Months /28 Days | Metal-Specific 0.0002 to 0.04 mg/l |
| **Radiochemistry** | | | |
| Radium - 226 (includes 3051 digestion) (Ore only) | EPA M9315 | NA | 1.0 pCi/g |
| Radium - 228 (includes 3051 digestion) (Ore only) | EPA M9320 | NA | 1.5 pCi/g |
| Uranium, Total (Ore only) | EPA M6020, ICP/MS | NA | 1.0 ug |
| **Organics -2** | | | |
| Purgeables (VOA's) | EPA M8260B GC/MS | 7 Days | 2 mg/kg |
| Base/Neutral Acid Extractables (BNA's) | EPA M8270C GC/MS | 7 Days | 67 to 300 mg/kg |
| PCB | EPA M608/8082 GC/ECD | 7 Days | 0.02 mg/kg |

- 1 – Background samples obtained from [illegible] ath reclamation soil cover. All soils samples obtained 12-inch s[illegible] layer.
- 2 - Organics obtained from GTSO-5 thro[illegible]gh GTSO-7 fro[illegible] beneath recla[illegible]tion cover surface. PCB soil sample obtained from GTSO-8 su[illegible]ce sample

DRAFT

8/10/2006

**ACZ Laboratories, Inc.**
*2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493*

# Analytical Report

August 27, 2010

Report to:
Mitch Hart
Nu-West Industries, Inc.
3010 Conda Road
Soda Springs, ID 83276

Bill to:
Accounts Payable
Nu-West Industries, Inc.
PO Box 5000, Station A
Calgary, AB Canada, AB T2H 3B9

cc: JB Brown, James Williams, Cindy Emmons

Project ID: 4800042488
ACZ Project ID: L83896

Mitch Hart:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 20, 2010. This project has been assigned to ACZ's project number, L83896. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L83896. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 27, 2010. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Tony Antalek has reviewed and approved this report.

Nu-West Industries, Inc.

August 27, 2010

Project ID: 4800042488
ACZ Project ID: L83896

## Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 7 soil samples from Nu-West Industries, Inc. on August 20, 2010. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L83896. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

## Holding Times

All analyses were performed within EPA recommended holding times.

## Sample Analysis

These samples were analyzed for organic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. The Polynuclear Aromatic Hydrocarbon (PAH) analysis was qualified with the ACZ 'N1' flag as spike recoveries were not calculated in the associated workgroup. Please refer to the attached BNA Spike Compound Spreadsheet for specific spike information.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 1

ACZ Sample ID: ***L83896-01***
Date Sampled: *08/17/10 18:05*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Polynuclear Aromatic Hydrocarbons GC/M

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG288636**
Analyst: djt
Extract Date: 08/23/10 14:12
Analysis Date: 08/24/10 17:11

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 91-57-6 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Acenaphthene | 83-32-9 | | U | 33.33 | * | ug/Kg | 70 | 300 |
| Acenaphthylene | 208-96-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Anthracene | 120-12-7 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(a)anthracene | 56-55-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(a)pyrene | 50-32-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(b)fluoranthene | 205-99-2 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Chrysene | 218-01-9 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Dibenzo(a,h)anthracene | 53-70-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Fluoranthene | 206-44-0 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Fluorene | 86-73-7 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Naphthalene | 91-20-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Phenanthrene | 85-01-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Pyrene | 129-00-0 | | U | 33.33 | * | ug/Kg | 70 | 300 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 321-60-8 | 70.2 | 33.33 | | % | 30 | 115 |
| Nitrobenzene-d5 | 4165-60-0 | 67 | 33.33 | | % | 23 | 120 |
| Terphenyl-d14 | 1718-51-0 | 89.4 | 33.33 | | % | 18 | 137 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 1

ACZ Sample ID: ***L83896-01***
Date Sampled: *08/17/10 18:05*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Total Petroleum Hydrocarbons

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

**Workgroup: WG288596**
Analyst: mss
Extract Date: 08/24/10 13:33
Analysis Date: 08/25/10 17:58

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28 | | 9 | J | 33.33 | | mg/Kg | 3 | 20 |

| Surrogate Recoveries | CAS | % Recovery | | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|---|
| OTP | 84-15-1 | 89.8 | | 33.33 | | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 1

ACZ Sample ID: ***L83896-01***
Date Sampled: *08/17/10 18:05*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

**Workgroup: WG288403**
Analyst: mss
Extract Date: 08/24/10 19:28
Analysis Date: 08/24/10 19:28

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | 5 | J | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 4 | J | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 1

ACZ Sample ID: ***L83896-01***
Date Sampled: *08/17/10 18:05*
Date Received: *08/20/10*
Sample Matrix: *Soil*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroethane | 75-00-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | 5 | J | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | 6 | J | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | | U | 1 | * | ug/Kg | 4 | 10 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | 460-00-4 | 95.6 | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 103 | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 98.5 | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 2

ACZ Sample ID: ***L83896-02***
Date Sampled: *08/17/10 18:25*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Polynuclear Aromatic Hydrocarbons GC/M

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG288636**
Analyst: djt
Extract Date: 08/23/10 14:13
Analysis Date: 08/24/10 17:36

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 91-57-6 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Acenaphthene | 83-32-9 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Acenaphthylene | 208-96-8 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Anthracene | 120-12-7 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Benzo(a)anthracene | 56-55-3 | 500 | J | 166.7 | * | ug/Kg | 300 | 2000 |
| Benzo(a)pyrene | 50-32-8 | 400 | J | 166.7 | * | ug/Kg | 300 | 2000 |
| Benzo(b)fluoranthene | 205-99-2 | 500 | J | 166.7 | * | ug/Kg | 300 | 2000 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Chrysene | 218-01-9 | 500 | J | 166.7 | * | ug/Kg | 300 | 2000 |
| Dibenzo(a,h)anthracene | 53-70-3 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Fluoranthene | 206-44-0 | 700 | J | 166.7 | * | ug/Kg | 300 | 2000 |
| Fluorene | 86-73-7 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Naphthalene | 91-20-3 | | U | 166.7 | * | ug/Kg | 300 | 2000 |
| Phenanthrene | 85-01-8 | 800 | J | 166.7 | * | ug/Kg | 300 | 2000 |
| Pyrene | 129-00-0 | 1000 | J | 166.7 | * | ug/Kg | 300 | 2000 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 321-60-8 | 79.2 | 166.7 | * | % | 30 | 115 |
| Nitrobenzene-d5 | 4165-60-0 | 66.8 | 166.7 | * | % | 23 | 120 |
| Terphenyl-d14 | 1718-51-0 | 72.8 | 166.7 | * | % | 18 | 137 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 2

ACZ Sample ID: ***L83896-02***
Date Sampled: *08/17/10 18:25*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Total Petroleum Hydrocarbons

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

**Workgroup: WG288596**
Analyst: mss
Extract Date: 08/24/10 13:36
Analysis Date: 08/25/10 19:16

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28 | | 18 | J | 33.34 | | mg/Kg | 3 | 20 |

| Surrogate Recoveries | CAS | % Recovery | | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|---|
| OTP | 84-15-1 | 91.7 | | 33.34 | | % | 70 | 130 |

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 2

ACZ Sample ID: ***L83896-02***
Date Sampled: *08/17/10 18:25*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

**Workgroup: WG288403**
Analyst: mss
Extract Date: 08/24/10 20:44
Analysis Date: 08/24/10 20:44

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 2

ACZ Sample ID: ***L83896-02***
Date Sampled: *08/17/10 18:25*
Date Received: *08/20/10*
Sample Matrix: *Soil*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroethane | 75-00-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | 3 | J | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | | U | 1 | * | ug/Kg | 4 | 10 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | 460-00-4 | 95.7 | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 99.8 | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 99.4 | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 4

ACZ Sample ID: ***L83896-03***
Date Sampled: *08/17/10 18:45*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Polynuclear Aromatic Hydrocarbons GC/M

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG288636**
Analyst: djt
Extract Date: 08/23/10 14:14
Analysis Date: 08/24/10 18:01

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 91-57-6 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Acenaphthene | 83-32-9 | | U | 33.32 | * | ug/Kg | 70 | 300 |
| Acenaphthylene | 208-96-8 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Anthracene | 120-12-7 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Benzo(a)anthracene | 56-55-3 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Benzo(a)pyrene | 50-32-8 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Benzo(b)fluoranthene | 205-99-2 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Chrysene | 218-01-9 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Dibenzo(a,h)anthracene | 53-70-3 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Fluoranthene | 206-44-0 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Fluorene | 86-73-7 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Naphthalene | 91-20-3 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Phenanthrene | 85-01-8 | | U | 33.32 | | ug/Kg | 70 | 300 |
| Pyrene | 129-00-0 | | U | 33.32 | * | ug/Kg | 70 | 300 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 321-60-8 | 66.5 | 33.32 | | % | 30 | 115 |
| Nitrobenzene-d5 | 4165-60-0 | 44.3 | 33.32 | | % | 23 | 120 |
| Terphenyl-d14 | 1718-51-0 | 99 | 33.32 | | % | 18 | 137 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 4

ACZ Sample ID: ***L83896-03***
Date Sampled: *08/17/10 18:45*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Total Petroleum Hydrocarbons

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

**Workgroup: WG288596**
Analyst: mss
Extract Date: 08/24/10 13:37
Analysis Date: 08/25/10 19:42

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28 | | 7 | J | 33.29 | | mg/Kg | 3 | 20 |

| Surrogate Recoveries | CAS | % Recovery | | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|---|
| OTP | 84-15-1 | 87.5 | | 33.29 | | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 4

ACZ Sample ID: ***L83896-03***
Date Sampled: *08/17/10 18:45*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

**Workgroup: WG288403**
Analyst: mss
Extract Date: 08/24/10 21:09
Analysis Date: 08/24/10 21:09

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 4

ACZ Sample ID: ***L83896-03***
Date Sampled: *08/17/10 18:45*
Date Received: *08/20/10*
Sample Matrix: *Soil*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroethane | 75-00-3 | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | U | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | U | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | U | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | U | 1 | * | ug/Kg | 4 | 10 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | 460-00-4 | 93.5 | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 98.4 | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 100.5 | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 6

ACZ Sample ID: ***L83896-04***
Date Sampled: *08/17/10 19:15*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Polynuclear Aromatic Hydrocarbons GC/M

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG288636**
Analyst: djt
Extract Date: 08/23/10 14:15
Analysis Date: 08/24/10 18:26

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 91-57-6 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Acenaphthene | 83-32-9 | | U | 33.33 | * | ug/Kg | 70 | 300 |
| Acenaphthylene | 208-96-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Anthracene | 120-12-7 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(a)anthracene | 56-55-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(a)pyrene | 50-32-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(b)fluoranthene | 205-99-2 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Chrysene | 218-01-9 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Dibenzo(a,h)anthracene | 53-70-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Fluoranthene | 206-44-0 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Fluorene | 86-73-7 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Naphthalene | 91-20-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Phenanthrene | 85-01-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Pyrene | 129-00-0 | | U | 33.33 | * | ug/Kg | 70 | 300 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 321-60-8 | 74.1 | 33.33 | | % | 30 | 115 |
| Nitrobenzene-d5 | 4165-60-0 | 62.5 | 33.33 | | % | 23 | 120 |
| Terphenyl-d14 | 1718-51-0 | 85.9 | 33.33 | | % | 18 | 137 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 6

ACZ Sample ID: ***L83896-04***
Date Sampled: *08/17/10 19:15*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Total Petroleum Hydrocarbons

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

**Workgroup: WG288596**
Analyst: mss
Extract Date: 08/24/10 13:38
Analysis Date: 08/25/10 20:08

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28 | | 96 | | 33.34 | | mg/Kg | 3 | 20 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| OTP | 84-15-1 | 85.7 | 33.34 | | % | 70 | 130 |

ACZ Laboratories, Inc.
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# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 6

ACZ Sample ID: ***L83896-04***
Date Sampled: *08/17/10 19:15*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

**Workgroup: WG288403**
Analyst: mss
Extract Date: 08/24/10 21:34
Analysis Date: 08/24/10 21:34

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 6

ACZ Sample ID: ***L83896-04***
Date Sampled: *08/17/10 19:15*
Date Received: *08/20/10*
Sample Matrix: *Soil*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroethane | 75-00-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | | U | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| **Surrogate Recoveries** | **CAS** | **% Recovery** | | **Dilution** | **XQ** | **Units** | **LCL** | **UCL** |
| Bromofluorobenzene | 460-00-4 | 98.6 | | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 102.5 | | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 99.3 | | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 10

ACZ Sample ID: ***L83896-05***
Date Sampled: *08/17/10 20:00*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Polynuclear Aromatic Hydrocarbons GC/M

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG288636**
Analyst: djt
Extract Date: 08/23/10 14:16
Analysis Date: 08/24/10 18:51

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 91-57-6 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Acenaphthene | 83-32-9 | | U | 33.31 | * | ug/Kg | 70 | 300 |
| Acenaphthylene | 208-96-8 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Anthracene | 120-12-7 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Benzo(a)anthracene | 56-55-3 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Benzo(a)pyrene | 50-32-8 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Benzo(b)fluoranthene | 205-99-2 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Chrysene | 218-01-9 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Dibenzo(a,h)anthracene | 53-70-3 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Fluoranthene | 206-44-0 | 70 | J | 33.31 | | ug/Kg | 70 | 300 |
| Fluorene | 86-73-7 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Naphthalene | 91-20-3 | | U | 33.31 | | ug/Kg | 70 | 300 |
| Phenanthrene | 85-01-8 | 80 | J | 33.31 | | ug/Kg | 70 | 300 |
| Pyrene | 129-00-0 | | U | 33.31 | * | ug/Kg | 70 | 300 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 321-60-8 | 76 | 33.31 | | % | 30 | 115 |
| Nitrobenzene-d5 | 4165-60-0 | 63.4 | 33.31 | | % | 23 | 120 |
| Terphenyl-d14 | 1718-51-0 | 94.9 | 33.31 | | % | 18 | 137 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 10

ACZ Sample ID: ***L83896-05***
Date Sampled: *08/17/10 20:00*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Total Petroleum Hydrocarbons

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

**Workgroup: WG288596**
Analyst: mss
Extract Date: 08/24/10 13:39
Analysis Date: 08/25/10 20:34

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28 | | 6 | J | 33.31 | | mg/Kg | 3 | 20 |

| Surrogate Recoveries | CAS | % Recovery | | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|---|
| OTP | 84-15-1 | 87.9 | | 33.31 | | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 10

ACZ Sample ID: ***L83896-05***
Date Sampled: *08/17/10 20:00*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

**Workgroup: WG288403**
Analyst: mss
Extract Date: 08/24/10 21:59
Analysis Date: 08/24/10 21:59

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 10

ACZ Sample ID: ***L83896-05***
Date Sampled: *08/17/10 20:00*
Date Received: *08/20/10*
Sample Matrix: *Soil*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroethane | 75-00-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | | U | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| **Surrogate Recoveries** | **CAS** | **% Recovery** | | **Dilution** | **XQ** | **Units** | **LCL** | **UCL** |
| Bromofluorobenzene | 460-00-4 | 94.8 | | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 104.3 | | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 98.3 | | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7

ACZ Sample ID: ***L83896-06***
Date Sampled: *08/17/10 19:35*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Polynuclear Aromatic Hydrocarbons GC/M

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG288636**
Analyst: djt
Extract Date: 08/23/10 14:17
Analysis Date: 08/24/10 19:16

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 91-57-6 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Acenaphthene | 83-32-9 | | U | 33.34 | * | ug/Kg | 70 | 300 |
| Acenaphthylene | 208-96-8 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Anthracene | 120-12-7 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Benzo(a)anthracene | 56-55-3 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Benzo(a)pyrene | 50-32-8 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Benzo(b)fluoranthene | 205-99-2 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Chrysene | 218-01-9 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Dibenzo(a,h)anthracene | 53-70-3 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Fluoranthene | 206-44-0 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Fluorene | 86-73-7 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Naphthalene | 91-20-3 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Phenanthrene | 85-01-8 | | U | 33.34 | | ug/Kg | 70 | 300 |
| Pyrene | 129-00-0 | | U | 33.34 | * | ug/Kg | 70 | 300 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 321-60-8 | 84.8 | 33.34 | | % | 30 | 115 |
| Nitrobenzene-d5 | 4165-60-0 | 69.8 | 33.34 | | % | 23 | 120 |
| Terphenyl-d14 | 1718-51-0 | 97.5 | 33.34 | | % | 18 | 137 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
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# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7

ACZ Sample ID: ***L83896-06***
Date Sampled: *08/17/10 19:35*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Total Petroleum Hydrocarbons

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

**Workgroup: WG288596**
Analyst: mss
Extract Date: 08/24/10 13:40
Analysis Date: 08/25/10 21:25

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28 | | 14 | J | 33.33 | | mg/Kg | 3 | 20 |

| Surrogate Recoveries | CAS | % Recovery | | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|---|
| OTP | 84-15-1 | 86.5 | | 33.33 | | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7

ACZ Sample ID: ***L83896-06***
Date Sampled: *08/17/10 19:35*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

**Workgroup: WG288403**
Analyst: mss
Extract Date: 08/24/10 22:24
Analysis Date: 08/24/10 22:24

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7

ACZ Sample ID: ***L83896-06***
Date Sampled: *08/17/10 19:35*
Date Received: *08/20/10*
Sample Matrix: *Soil*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroethane | 75-00-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | 4 | J | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | | U | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | | U | 1 | * | ug/Kg | 4 | 10 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| Bromofluorobenzene | 460-00-4 | 93.8 | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 100.4 | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 99.4 | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7 NO 2

ACZ Sample ID: ***L83896-07***
Date Sampled: *08/17/10 19:55*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Polynuclear Aromatic Hydrocarbons GC/M

Analysis Method: **M8270C GC/MS**
Extract Method: **M3540**

**Workgroup: WG288636**
Analyst: djt
Extract Date: 08/23/10 14:18
Analysis Date: 08/24/10 19:42

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 91-57-6 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Acenaphthene | 83-32-9 | | U | 33.33 | * | ug/Kg | 70 | 300 |
| Acenaphthylene | 208-96-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Anthracene | 120-12-7 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(a)anthracene | 56-55-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(a)pyrene | 50-32-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(b)fluoranthene | 205-99-2 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(g,h,i)perylene | 191-24-2 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Benzo(k)fluoranthene | 207-08-9 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Chrysene | 218-01-9 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Dibenzo(a,h)anthracene | 53-70-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Fluoranthene | 206-44-0 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Fluorene | 86-73-7 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Naphthalene | 91-20-3 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Phenanthrene | 85-01-8 | | U | 33.33 | | ug/Kg | 70 | 300 |
| Pyrene | 129-00-0 | | U | 33.33 | * | ug/Kg | 70 | 300 |

| Surrogate Recoveries | CAS | % Recovery | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 321-60-8 | 73.2 | 33.33 | | % | 30 | 115 |
| Nitrobenzene-d5 | 4165-60-0 | 58.6 | 33.33 | | % | 23 | 120 |
| Terphenyl-d14 | 1718-51-0 | 81.8 | 33.33 | | % | 18 | 137 |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Organic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7 NO 2

ACZ Sample ID: ***L83896-07***
Date Sampled: *08/17/10 19:55*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Total Petroleum Hydrocarbons

Analysis Method: **M8015D GC/FID**
Extract Method: **M3540**

**Workgroup: WG288596**
Analyst: mss
Extract Date: 08/24/10 13:41
Analysis Date: 08/25/10 21:51

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| TPH C10 to C28 | | 14 | J | 33.33 | | mg/Kg | 3 | 20 |

| Surrogate Recoveries | CAS | % Recovery | | Dilution | XQ | Units | LCL | UCL |
|---|---|---|---|---|---|---|---|---|
| OTP | 84-15-1 | 88 | | 33.33 | | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7 NO 2

ACZ Sample ID: ***L83896-07***
Date Sampled: *08/17/10 19:55*
Date Received: *08/20/10*
Sample Matrix: *Soil*

## Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5035A**

**Workgroup: WG288403**
Analyst: mss
Extract Date: 08/24/10 22:50
Analysis Date: 08/24/10 22:50

| Compound | CAS | Result | QUAL | Dilution | XQ | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1,1-Trichloroethane | 71-55-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,1,2-Trichloroethane | 79-00-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethane | 75-34-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloroethene | 75-35-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,1-Dichloropropene | 563-58-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichlorobenzene | 87-61-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,3-Trichloropropane | 96-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2,4-Trichlorobenzene | 120-82-1 | | U | 1 | * | ug/Kg | 3 | 10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dibromoethane | 106-93-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichlorobenzene | 95-50-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloroethane | 107-06-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,2-Dichloropropane | 78-87-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichlorobenzene | 541-73-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,3-Dichloropropane | 142-28-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| 1,4-Dichlorobenzene | 106-46-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2,2-Dichloropropane | 594-20-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Butanone | 78-93-3 | | U | 1 | * | ug/Kg | 10 | 30 |
| 2-Chloroethyl vinyl ether | 110-75-8 | | U | 1 | * | ug/Kg | 5 | 30 |
| 2-Chlorotoluene | 95-49-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| 2-Hexanone | 591-78-6 | | U | 1 | * | ug/Kg | 10 | 30 |
| 4-Chlorotoluene | 106-43-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Isopropyltoluene | 99-87-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| 4-Methyl-2-Pentanone | 108-10-1 | | U | 1 | * | ug/Kg | 10 | 50 |
| Acetone | 67-64-1 | | U | 1 | * | ug/Kg | 10 | 30 |
| Acrylonitrile | 107-13-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Benzene | 71-43-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromobenzene | 108-86-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromochloromethane | 74-97-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromodichloromethane | 75-27-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromoform | 75-25-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Bromomethane | 74-83-9 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Disulfide | 75-15-0 | | U | 1 | * | ug/Kg | 4 | 10 |
| Carbon Tetrachloride | 56-23-5 | | U | 1 | * | ug/Kg | 10 | 30 |



** Please refer to Qualifier Reports for details.*

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: PILE 3-5-7 NO 2

ACZ Sample ID: ***L83896-07***
Date Sampled: *08/17/10 19:55*
Date Received: *08/20/10*
Sample Matrix: *Soil*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 108-90-7 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroethane | 75-00-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloroform | 67-66-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Chloromethane | 74-87-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,2-Dichloroethene | 156-59-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| cis-1,3-Dichloropropene | 10061-01-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromochloromethane | 124-48-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dibromomethane | 74-95-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Dichlorodifluoromethane | 75-71-8 | | U | 1 | * | ug/Kg | 5 | 20 |
| Ethylbenzene | 100-41-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Hexachlorobutadiene | 87-68-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| Isopropylbenzene | 98-82-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| m p Xylene | 1330-20-7 | | U | 1 | * | ug/Kg | 10 | 30 |
| Methyl Tert Butyl Ether | 1634-04-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Methylene Chloride | 75-09-2 | | U | 1 | * | ug/Kg | 4 | 10 |
| Naphthalene | 91-20-3 | | U | 1 | * | ug/Kg | 3 | 10 |
| n-Butylbenzene | 104-51-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| n-Propylbenzene | 103-65-1 | | U | 1 | * | ug/Kg | 4 | 10 |
| o Xylene | 95-47- 6 | | U | 1 | * | ug/Kg | 4 | 10 |
| sec-Butylbenzene | 135-98-8 | | U | 1 | * | ug/Kg | 4 | 10 |
| Styrene | 100-42-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| tert-Butylbenzene | 98-06-6 | | U | 1 | * | ug/Kg | 4 | 10 |
| Tetrachloroethene | 127-18-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Toluene | 108-88-3 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | | U | 1 | * | ug/Kg | 4 | 10 |
| trans-1,3-Dichloropropene | 10061-02-6 | | U | 1 | * | ug/Kg | 3 | 10 |
| Trichloroethene | 79-01-6 | | U | 1 | * | ug/Kg | 5 | 20 |
| Trichlorofluoromethane | 75-69-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Acetate | 108-05-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| Vinyl Chloride | 75-01-4 | | U | 1 | * | ug/Kg | 4 | 10 |
| **Surrogate Recoveries** | **CAS** | **% Recovery** | | **Dilution** | **XQ** | **Units** | **LCL** | **UCL** |
| Bromofluorobenzene | 460-00-4 | 93.2 | | 1 | * | % | 70 | 130 |
| Dibromofluoromethane | 1868-53-7 | 92.9 | | 1 | * | % | 70 | 130 |
| Toluene-d8 | 2037-26-5 | 101.9 | | 1 | * | % | 70 | 130 |



** Please refer to Qualifier Reports for details.*

## Report Header Explanations

| | |
|---|---|
| Batch | A distinct set of samples analyzed at a specific time |
| Found | Value of the QC Type of interest |
| Limit | Upper limit for RPD, in %. |
| Lower | Lower Recovery Limit, in % (except for LCSS, mg/Kg) |
| LCL | Lower Control Limit |
| MDL | Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations. |
| PCN/SCN | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| PQL | Practical Quantitation Limit |
| QC | True Value of the Control Sample or the amount added to the Spike |
| Rec | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) |
| RPD | Relative Percent Difference, calculation used for Duplicate QC Types |
| Upper | Upper Recovery Limit, in % (except for LCSS, mg/Kg) |
| UCL | Upper Control Limit |
| Sample | Value of the Sample of interest |

## QC Sample Types

| | | | |
|---|---|---|---|
| SURR | Surrogate | LFM | Laboratory Fortified Matrix |
| INTS | Internal Standard | LFMD | Laboratory Fortified Matrix Duplicate |
| DUP | Sample Duplicate | LRB | Laboratory Reagent Blank |
| LCSS | Laboratory Control Sample - Soil | MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| LCSW | Laboratory Control Sample - Water | PBS | Prep Blank - Soil |
| LFB | Laboratory Fortified Blank | PBW | Prep Blank - Water |

## QC Sample Type Explanations

| | |
|---|---|
| Blanks | Verifies that there is no or minimal contamination in the prep method procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure. |
| Duplicates | Verifies the precision of the instrument and/or method. |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any. |

## ACZ Qualifiers (Qual)

| | |
|---|---|
| B | Analyte detected in daily blank |
| H | Analysis exceeded method hold time. |
| J | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity. |
| R | Poor spike recovery accepted because the other spike in the set fell within the given limits. |
| T | High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL. |
| U | The material was analyzed for, but was not detected above the level of the associated value. |
| | The associated value is either the sample quantitation limit or the sample detection limit. |
| V | High blank data accepted because sample concentration is 10 times higher than blank concentration |
| W | Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride. |
| X | Quality contreol sample is out of control. |
| Z | Poor spike recovery is accepted because sample concentration is four times greater than spike concentration. |
| P | Analyte concentration differs from second detector by more than 40%. |
| E | Analyte concentration is estimated due to result exceeding calibration range. |
| M | Analyte concentration is estimated due to matrix interferences. |

## Method References

| | |
|---|---|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983. |
| (2) | EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990. |
| (3) | EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990. |
| (5) | EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December, 1996. |
| (6) | Standard Methods for the Examination of Water and Wastewater, 19th edition (1995) & 20th edition (1998). |

## Comments

| | |
|---|---|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations. |
| (2) | Organic analyses are reported on an "as received" basis. |
| (3) | An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result |

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

Project ID: PILE 1

## Polynuclear Aromatic Hydrocarbons GC/MS

M8270C GC/MS

**WG288636**

**MS** **Sample ID: L83574-01MS** **PCN/SCN: OP100823-2-30G** **Analyzed: 08/25/10 12:48**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | 1666.7 | | 2610 | ug/Kg | | 45 | 110 | | | N1 |
| 1,4-DICHLOROBENZENE | 1667.3 | | 2500 | ug/Kg | | 35 | 105 | | | N1 |
| 2,4-DINITROTOLUENE | 1667 | | 2920 | ug/Kg | | 50 | 115 | | | N1 |
| 2-CHLOROPHENOL | 2500.7 | | 3840 | ug/Kg | | 45 | 105 | | | N1 |
| 4-CHLORO-3-METHYLPHENOL | 2500 | | 4140 | ug/Kg | | 45 | 115 | | | N1 |
| 4-NITROPHENOL | 2500 | | 3600 | ug/Kg | | 15 | 140 | | | MD N1 |
| ACENAPHTHENE | 1667 | U | 2760 | ug/Kg | | 45 | 110 | | | N1 |
| N-NITROSODI-N-PROPYLAMINE | 1668 | | 2940 | ug/Kg | | 40 | 115 | | | N1 |
| PENTACHLOROPHENOL | 2500 | | 1500 | ug/Kg | | 25 | 120 | | | MD N1 |
| PHENOL | 2500 | | 3890 | ug/Kg | | 40 | 100 | | | N1 |
| PYRENE | 1667 | U | 2820 | ug/Kg | | 45 | 125 | | | |
| 2,4,6-TRIBROMOPHENOL (surr) | | | | % | 77.9 | 35 | 125 | | | |
| 2-FLUOROBIPHENYL (surr) | | | | % | 79.6 | 45 | 105 | | | |
| 2-FLUOROPHENOL (surr) | | | | % | 75.6 | 35 | 105 | | | |
| NITROBENZENE-D5 (surr) | | | | % | 79.8 | 35 | 100 | | | |
| PHENOL-D6 (surr) | | | | % | 80.0 | 40 | 100 | | | |
| TERPHENYL-D14 (surr) | | | | % | 80.1 | 30 | 125 | | | |

**MSD** **Sample ID: L83574-01MSD** **PCN/SCN: OP100823-2-30G** **Analyzed: 08/25/10 13:13**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | 1666.7 | | 2310 | ug/Kg | | 45 | 110 | | 20 | N1 |
| 1,4-DICHLOROBENZENE | 1667.3 | | 2200 | ug/Kg | | 35 | 105 | | 20 | N1 |
| 2,4-DINITROTOLUENE | 1667 | | 2780 | ug/Kg | | 50 | 115 | | 20 | N1 |
| 2-CHLOROPHENOL | 2500.7 | | 3290 | ug/Kg | | 45 | 105 | | 20 | N1 |
| 4-CHLORO-3-METHYLPHENOL | 2500 | | 3940 | ug/Kg | | 45 | 115 | | 20 | N1 |
| 4-NITROPHENOL | 2500 | | 3700 | ug/Kg | | 15 | 140 | | 20 | MD N1 |
| ACENAPHTHENE | 1667 | U | 2590 | ug/Kg | | 45 | 110 | | 20 | N1 |
| N-NITROSODI-N-PROPYLAMINE | 1668 | | 2530 | ug/Kg | | 40 | 115 | | 20 | N1 |
| PENTACHLOROPHENOL | 2500 | | U | ug/Kg | | 25 | 120 | | 20 | MD N1 |
| PHENOL | 2500 | | 3410 | ug/Kg | | 40 | 100 | | 20 | N1 |
| PYRENE | 1667 | U | 2560 | ug/Kg | | 45 | 125 | | 20 | |
| 2,4,6-TRIBROMOPHENOL (surr) | | | | % | 74.4 | 35 | 125 | | | |
| 2-FLUOROBIPHENYL (surr) | | | | % | 72.4 | 45 | 105 | | | |
| 2-FLUOROPHENOL (surr) | | | | % | 63.9 | 35 | 105 | | | |
| NITROBENZENE-D5 (surr) | | | | % | 68.7 | 35 | 100 | | | |
| PHENOL-D6 (surr) | | | | % | 68.8 | 40 | 100 | | | |
| TERPHENYL-D14 (surr) | | | | % | 69.1 | 30 | 125 | | | |

**LCSS** **Sample ID: WG288397LCSS** **PCN/SCN: OP100823-2-30G** **Analyzed: 08/24/10 16:21**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | 1666.7 | | 1083 | ug/Kg | 65.0 | 45 | 110 | | | |
| 1,4-DICHLOROBENZENE | 1667.3 | | 1050 | ug/Kg | 63.0 | 35 | 105 | | | |
| 2,4-DINITROTOLUENE | 1667 | | 958 | ug/Kg | 57.5 | 50 | 115 | | | |
| 2-CHLOROPHENOL | 2500.7 | | 1530 | ug/Kg | 61.2 | 45 | 105 | | | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4-CHLORO-3-METHYLPHENOL | 2500 | | 1256 | ug/Kg | 50.2 | 45 | 115 |
| 4-NITROPHENOL | 2500 | | 1070 | ug/Kg | 42.8 | 15 | 140 |
| ACENAPHTHENE | 1667 | | 1055 | ug/Kg | 63.3 | 45 | 110 |
| N-NITROSODI-N-PROPYLAMINE | 1668 | | 1122 | ug/Kg | 67.3 | 40 | 115 |
| PENTACHLOROPHENOL | 2500 | | 1270 | ug/Kg | 50.8 | 25 | 120 |
| PHENOL | 2500 | | 1470 | ug/Kg | 58.8 | 40 | 100 |
| PYRENE | 1667 | | 1650 | ug/Kg | 99.0 | 45 | 125 |
| 2,4,6-TRIBROMOPHENOL (surr) | | | | % | 64.7 | 35 | 125 |
| 2-FLUOROBIPHENYL (surr) | | | | % | 65.8 | 45 | 105 |
| 2-FLUOROPHENOL (surr) | | | | % | 62.2 | 35 | 105 |
| NITROBENZENE-D5 (surr) | | | | % | 63.4 | 35 | 100 |
| PHENOL-D6 (surr) | | | | % | 61.0 | 40 | 100 |
| TERPHENYL-D14 (surr) | | | | % | 102.1 | 30 | 125 |

**LCSSD** **Sample ID: WG288397LCSSD** **PCN/SCN: OP100823-2-30G** **Analyzed: 08/24/10 16:46**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | 1666.7 | | 1276 | ug/Kg | 76.6 | 45 | 110 | 16.4 | 20 | |
| 1,4-DICHLOROBENZENE | 1667.3 | | 1218 | ug/Kg | 73.1 | 35 | 105 | 14.8 | 20 | |
| 2,4-DINITROTOLUENE | 1667 | | 1130 | ug/Kg | 67.8 | 50 | 115 | 16.5 | 20 | |
| 2-CHLOROPHENOL | 2500.7 | | 1797 | ug/Kg | 71.9 | 45 | 105 | 16.1 | 20 | |
| 4-CHLORO-3-METHYLPHENOL | 2500 | | 1503 | ug/Kg | 60.1 | 45 | 115 | 17.9 | 20 | |
| 4-NITROPHENOL | 2500 | | 1250 | ug/Kg | 50.0 | 15 | 140 | 15.5 | 20 | |
| ACENAPHTHENE | 1667 | | 1244 | ug/Kg | 74.6 | 45 | 110 | 16.4 | 20 | |
| N-NITROSODI-N-PROPYLAMINE | 1668 | | 1312 | ug/Kg | 78.7 | 40 | 115 | 15.6 | 20 | |
| PENTACHLOROPHENOL | 2500 | | 1550 | ug/Kg | 62.0 | 25 | 120 | 19.9 | 20 | |
| PHENOL | 2500 | | 1730 | ug/Kg | 69.2 | 40 | 100 | 16.3 | 20 | |
| PYRENE | 1667 | | 1861 | ug/Kg | 111.6 | 45 | 125 | 12 | 20 | |
| 2,4,6-TRIBROMOPHENOL (surr) | | | | % | 78.5 | 35 | 125 | | | |
| 2-FLUOROBIPHENYL (surr) | | | | % | 76.9 | 45 | 105 | | | |
| 2-FLUOROPHENOL (surr) | | | | % | 71.4 | 35 | 105 | | | |
| NITROBENZENE-D5 (surr) | | | | % | 73.5 | 35 | 100 | | | |
| PHENOL-D6 (surr) | | | | % | 71.0 | 40 | 100 | | | |
| TERPHENYL-D14 (surr) | | | | % | 113.1 | 30 | 125 | | | |

**PBS** **Sample ID: WG288397PBS** **Analyzed: 08/24/10 15:56**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-TRICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 1,2-DICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 1,3-DICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 1,4-DICHLOROBENZENE | | | U | ug/Kg | | -300 | 300 | | | |
| 2,4,5-TRICHLOROPHENOL | | | U | ug/Kg | | -2000 | 2000 | | | |
| 2,4,6-TRICHLOROPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 2,4-DICHLOROPHENOL | | | U | ug/Kg | | -300 | 300 | | | |
| 2,4-DIMETHYLPHENOL | | | U | ug/Kg | | -700 | 700 | | | |
| 2,4-DINITROPHENOL | | | U | ug/Kg | | -3000 | 3000 | | | |
| 2,4-DINITROTOLUENE | | | U | ug/Kg | | -300 | 300 | | | |
| 2,6-DINITROTOLUENE | | | U | ug/Kg | | -2000 | 2000 | | | |
| 2-CHLORONAPHTHALENE | | | U | ug/Kg | | -300 | 300 | | | |
| 2-CHLOROPHENOL | | | U | ug/Kg | | -300 | 300 | | | |

**Nu-West Industries, Inc.**

ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | |
|---|---|---|---|---|
| 2-METHYLNAPHTHALENE | U | ug/Kg | -300 | 300 |
| 2-METHYLPHENOL | U | ug/Kg | -300 | 300 |
| 2-NITROANILINE | U | ug/Kg | -2000 | 2000 |
| 2-NITROPHENOL | U | ug/Kg | -700 | 700 |
| 3- & 4-METHYLPHENOL | U | ug/Kg | -700 | 700 |
| 3,3-DICHLOROBENZIDINE | U | ug/Kg | -700 | 700 |
| 3-NITROANILINE | U | ug/Kg | -2000 | 2000 |
| 4,6-DINITRO-2-METHYLPHENOL | U | ug/Kg | -2000 | 2000 |
| 4-BROMOPHENYL PHENYL ETHER | U | ug/Kg | -300 | 300 |
| 4-CHLORO-3-METHYLPHENOL | U | ug/Kg | -300 | 300 |
| 4-CHLOROANILINE | U | ug/Kg | -300 | 300 |
| 4-CHLOROPHENYL PHENYL ETHER | U | ug/Kg | -300 | 300 |
| 4-NITROANILINE | U | ug/Kg | -2000 | 2000 |
| 4-NITROPHENOL | U | ug/Kg | -2000 | 2000 |
| ACENAPHTHENE | U | ug/Kg | -300 | 300 |
| ACENAPHTHYLENE | U | ug/Kg | -300 | 300 |
| ANILINE | U | ug/Kg | -700 | 700 |
| ANTHRACENE | U | ug/Kg | -300 | 300 |
| AZOBENZENE | U | ug/Kg | -2000 | 2000 |
| BENZO(A)ANTHRACENE | U | ug/Kg | -300 | 300 |
| BENZO(A)PYRENE | U | ug/Kg | -300 | 300 |
| BENZO(B)FLUORANTHENE | U | ug/Kg | -300 | 300 |
| BENZO(G,H,I)PERYLENE | U | ug/Kg | -300 | 300 |
| BENZO(K)FLUORANTHENE | U | ug/Kg | -300 | 300 |
| BENZOIC ACID | U | ug/Kg | -2000 | 2000 |
| BENZYL ALCOHOL | U | ug/Kg | -300 | 300 |
| BIS(2-CHLOROETHOXY)METHANE | U | ug/Kg | -300 | 300 |
| BIS(2-CHLOROETHYL) ETHER | U | ug/Kg | -300 | 300 |
| BIS(2-CHLOROISOPROPYL) ETHER | U | ug/Kg | -300 | 300 |
| BIS(2-ETHYLHEXYL) PHTHALATE | U | ug/Kg | -700 | 700 |
| BUTYL BENZYL PHTHALATE | U | ug/Kg | -300 | 300 |
| CHRYSENE | U | ug/Kg | -300 | 300 |
| DIBENZO(A,H)ANTHRACENE | U | ug/Kg | -300 | 300 |
| DIBENZOFURAN | U | ug/Kg | -300 | 300 |
| DIETHYLPHTHALATE | U | ug/Kg | -300 | 300 |
| DIMETHYL PHTHALATE | U | ug/Kg | -300 | 300 |
| DI-N-BUTYL PHTHALATE | U | ug/Kg | -300 | 300 |
| DI-N-OCTYL PHTHALATE | U | ug/Kg | -300 | 300 |
| FLUORANTHENE | U | ug/Kg | -300 | 300 |
| FLUORENE | U | ug/Kg | -300 | 300 |
| HEXACHLOROBENZENE | U | ug/Kg | -300 | 300 |
| HEXACHLOROBUTADIENE | U | ug/Kg | -300 | 300 |
| HEXACHLOROCYCLOPENTADIENE | U | ug/Kg | -300 | 300 |
| HEXACHLOROETHANE | U | ug/Kg | -300 | 300 |
| INDENO(1,2,3-CD)PYRENE | U | ug/Kg | -300 | 300 |
| ISOPHORONE | U | ug/Kg | -300 | 300 |
| NAPHTHALENE | U | ug/Kg | -300 | 300 |
| NITROBENZENE | U | ug/Kg | -300 | 300 |
| N-NITROSODIMETHYLAMINE | U | ug/Kg | -2000 | 2000 |

**Nu-West Industries, Inc.**

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| | | | | | | |
|---|---|---|---|---|---|---|
| N-NITROSODI-N-PROPYLAMINE | U | ug/Kg | | -300 | 300 | |
| N-NITROSODIPHENYLAMINE | U | ug/Kg | | -300 | 300 | |
| PENTACHLOROPHENOL | U | ug/Kg | | -2000 | 2000 | |
| PHENANTHRENE | U | ug/Kg | | -300 | 300 | |
| PHENOL | U | ug/Kg | | -700 | 700 | |
| PYRENE | U | ug/Kg | | -300 | 300 | |
| 2,4,6-TRIBROMOPHENOL (surr) | | % | 72.6 | 35 | 125 | |
| 2-FLUOROBIPHENYL (surr) | | % | 84.1 | 45 | 105 | |
| 2-FLUOROPHENOL (surr) | | % | 77.2 | 35 | 105 | |
| NITROBENZENE-D5 (surr) | | % | 80.4 | 35 | 100 | |
| PHENOL-D6 (surr) | | % | 75.8 | 40 | 100 | |
| TERPHENYL-D14 (surr) | | % | 129.1 | 30 | 125 | S1 |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

Project ID: PILE 1

## Total Petroleum Hydrocarbons

M8015D GC/FID

**WG288596**

**MS** **Sample ID: L83896-01MS** **PCN/SCN: OP100528-3-30G** **Analyzed: 08/25/10 18:24**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH C10 TO C28 | 83.3 | 9 | 72.7 | mg/Kg | 76.4 | 70 | 130 | | | |
| OTP (surr) | | | | % | 84.9 | 70 | 130 | | | |

**MSD** **Sample ID: L83896-01MSD** **PCN/SCN: OP100528-3-30G** **Analyzed: 08/25/10 18:50**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH C10 TO C28 | 83.3 | 9 | 80.1 | mg/Kg | 85.3 | 70 | 130 | 9.69 | 20 | |
| OTP (surr) | | | | % | 92.3 | 70 | 130 | | | |

**LCSS** **Sample ID: WG288450LCSS** **PCN/SCN: OP100528-3-30G** **Analyzed: 08/25/10 17:06**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH C10 TO C28 | 83.3 | | 69.3 | mg/Kg | 83.2 | 70 | 130 | | | |
| OTP (surr) | | | | % | 85.7 | 70 | 130 | | | |

**LCSSD** **Sample ID: WG288450LCSSD** **PCN/SCN: OP100528-3-30G** **Analyzed: 08/25/10 17:32**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH C10 TO C28 | 83.3 | | 70.3 | mg/Kg | 84.4 | 70 | 130 | 1.4 | 20 | |
| OTP (surr) | | | | % | 86.5 | 70 | 130 | | | |

**PBS** **Sample ID: WG288450PBS** **Analyzed: 08/25/10 16:40**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH C10 TO C28 | | | U | mg/Kg | | -20 | 20 | | | |
| OTP (surr) | | | | % | 80.1 | 70 | 130 | | | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

Project ID: PILE 1

**Volatile Organics by GC/MS** M8260B GC/MS

**WG288403**

**MS** **Sample ID: L83896-01MS** **PCN/SCN: VO082010-1-SPI** **Analyzed: 08/24/10 19:54**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | U | 99.4 | ug/Kg | 99.4 | 70 | 130 | | | |
| 1,1,1-TRICHLOROETHANE | 100 | U | 100 | ug/Kg | 100.0 | 70 | 130 | | | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | U | 98 | ug/Kg | 98.0 | 70 | 130 | | | |
| 1,1,2-TRICHLOROETHANE | 100 | U | 95.8 | ug/Kg | 95.8 | 70 | 130 | | | |
| 1,1-DICHLOROETHANE | 100 | U | 98.7 | ug/Kg | 98.7 | 70 | 130 | | | |
| 1,1-DICHLOROETHENE | 100 | U | 98.8 | ug/Kg | 98.8 | 70 | 130 | | | |
| 1,1-DICHLOROPROPENE | 100 | U | 99.8 | ug/Kg | 99.8 | 70 | 130 | | | |
| 1,2,3-TRICHLOROBENZENE | 100 | 5 | 71.6 | ug/Kg | 66.6 | 70 | 130 | | | M2 |
| 1,2,3-TRICHLOROPROPANE | 100 | U | 96.9 | ug/Kg | 96.9 | 70 | 130 | | | |
| 1,2,4-TRICHLOROBENZENE | 100 | 4 | 76.1 | ug/Kg | 72.1 | 70 | 130 | | | |
| 1,2,4-TRIMETHYLBENZENE | 100 | U | 95.9 | ug/Kg | 95.9 | 70 | 130 | | | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | U | 95 | ug/Kg | 95.0 | 70 | 130 | | | |
| 1,2-DIBROMOETHANE | 100 | U | 94.2 | ug/Kg | 94.2 | 70 | 130 | | | |
| 1,2-DICHLOROBENZENE | 100 | U | 89.4 | ug/Kg | 89.4 | 70 | 130 | | | |
| 1,2-DICHLOROETHANE | 100 | U | 94.5 | ug/Kg | 94.5 | 70 | 130 | | | |
| 1,2-DICHLOROPROPANE | 100 | U | 96.2 | ug/Kg | 96.2 | 70 | 130 | | | |
| 1,3,5-TRIMETHYLBENZENE | 100 | U | 98 | ug/Kg | 98.0 | 70 | 130 | | | |
| 1,3-DICHLOROBENZENE | 100 | U | 92.3 | ug/Kg | 92.3 | 70 | 130 | | | |
| 1,3-DICHLOROPROPANE | 100 | U | 94.6 | ug/Kg | 94.6 | 70 | 130 | | | |
| 1,4-DICHLOROBENZENE | 100 | U | 91.3 | ug/Kg | 91.3 | 70 | 130 | | | |
| 2,2-DICHLOROPROPANE | 100 | U | 103.2 | ug/Kg | 103.2 | 70 | 130 | | | |
| 2-BUTANONE | 200 | U | 190 | ug/Kg | 95.0 | 70 | 130 | | | |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | U | 92.1 | ug/Kg | 92.0 | 70 | 130 | | | |
| 2-CHLOROTOLUENE | 100 | U | 97.9 | ug/Kg | 97.9 | 70 | 130 | | | |
| 2-HEXANONE | 200 | U | 168 | ug/Kg | 84.0 | 70 | 130 | | | |
| 4-CHLOROTOLUENE | 100 | U | 95.2 | ug/Kg | 95.2 | 70 | 130 | | | |
| 4-ISOPROPYLTOLUENE | 100 | U | 95.7 | ug/Kg | 95.7 | 70 | 130 | | | |
| 4-METHYL-2-PENTANONE | 200 | U | 181 | ug/Kg | 90.5 | 70 | 130 | | | |
| ACETONE | 200 | U | 188 | ug/Kg | 94.0 | 70 | 130 | | | |
| ACRYLONITRILE | 100 | U | 89.4 | ug/Kg | 89.4 | 70 | 130 | | | |
| BENZENE | 100 | U | 98.4 | ug/Kg | 98.4 | 70 | 130 | | | |
| BROMOBENZENE | 100 | U | 97 | ug/Kg | 97.0 | 70 | 130 | | | |
| BROMOCHLOROMETHANE | 100 | U | 95.8 | ug/Kg | 95.8 | 70 | 130 | | | |
| BROMODICHLOROMETHANE | 100 | U | 95.8 | ug/Kg | 95.8 | 70 | 130 | | | |
| BROMOFORM | 100 | U | 95.2 | ug/Kg | 95.2 | 70 | 130 | | | |
| BROMOMETHANE | 100.1 | U | 97.8 | ug/Kg | 97.7 | 70 | 130 | | | |
| CARBON DISULFIDE | 100 | U | 96.8 | ug/Kg | 96.8 | 70 | 130 | | | |
| CARBON TETRACHLORIDE | 100 | U | 100 | ug/Kg | 100.0 | 70 | 130 | | | |
| CHLOROBENZENE | 100 | U | 95.1 | ug/Kg | 95.1 | 70 | 130 | | | |
| CHLOROETHANE | 100.4 | U | 99.5 | ug/Kg | 99.1 | 70 | 130 | | | |
| CHLOROFORM | 100 | U | 98.5 | ug/Kg | 98.5 | 70 | 130 | | | |
| CHLOROMETHANE | 100 | U | 100.4 | ug/Kg | 100.5 | 70 | 130 | | | |
| CIS-1,2-DICHLOROETHENE | 100 | U | 98.3 | ug/Kg | 98.3 | 70 | 130 | | | |
| CIS-1,3-DICHLOROPROPENE | 100 | U | 91.2 | ug/Kg | 91.2 | 70 | 130 | | | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DIBROMOCHLOROMETHANE | 100 | U | 99 | ug/Kg | 99.0 | 70 | 130 | | | |
| DIBROMOMETHANE | 100 | U | 91.9 | ug/Kg | 91.9 | 70 | 130 | | | |
| DICHLORODIFLUOROMETHANE | 100 | U | 96.1 | ug/Kg | 96.1 | 70 | 130 | | | |
| ETHYLBENZENE | 100 | U | 97.2 | ug/Kg | 97.2 | 70 | 130 | | | |
| HEXACHLOROBUTADIENE | 100 | U | 72 | ug/Kg | 72.0 | 70 | 130 | | | |
| ISOPROPYLBENZENE | 100 | U | 95.9 | ug/Kg | 95.9 | 70 | 130 | | | |
| M P XYLENE | 200 | U | 188 | ug/Kg | 94.0 | 70 | 130 | | | |
| METHYL TERT BUTYL ETHER | 100.1 | U | 94.5 | ug/Kg | 94.5 | 70 | 130 | | | |
| METHYLENE CHLORIDE | 100 | 5 | 92.2 | ug/Kg | 87.2 | 70 | 130 | | | |
| NAPHTHALENE | 100 | 6 | 73.8 | ug/Kg | 67.8 | 70 | 130 | | | M2 |
| N-BUTYLBENZENE | 100 | U | 89.5 | ug/Kg | 89.5 | 70 | 130 | | | |
| N-PROPYLBENZENE | 100 | U | 99.1 | ug/Kg | 99.1 | 70 | 130 | | | |
| O XYLENE | 100 | U | 95.6 | ug/Kg | 95.6 | 70 | 130 | | | |
| SEC-BUTYLBENZENE | 100 | U | 96.7 | ug/Kg | 96.7 | 70 | 130 | | | |
| STYRENE | 100 | U | 92.9 | ug/Kg | 92.9 | 70 | 130 | | | |
| TERT-BUTYLBENZENE | 100 | U | 102.1 | ug/Kg | 102.1 | 70 | 130 | | | |
| TETRACHLOROETHENE | 100 | U | 94.8 | ug/Kg | 94.8 | 70 | 130 | | | |
| TOLUENE | 100 | U | 98.7 | ug/Kg | 98.7 | 70 | 130 | | | |
| TRANS-1,2-DICHLOROETHENE | 100 | U | 98.7 | ug/Kg | 98.7 | 70 | 130 | | | |
| TRANS-1,3-DICHLOROPROPENE | 100 | U | 94.5 | ug/Kg | 94.5 | 70 | 130 | | | |
| TRICHLOROETHENE | 100 | U | 95.5 | ug/Kg | 95.5 | 70 | 130 | | | |
| TRICHLOROFLUOROMETHANE | 100.1 | U | 103 | ug/Kg | 102.9 | 70 | 130 | | | |
| VINYL ACETATE | 100 | U | U | ug/Kg | 0.0 | 70 | 130 | | | M2 |
| VINYL CHLORIDE | 100.3 | U | 99.9 | ug/Kg | 99.7 | 70 | 130 | | | |
| BROMOFLUOROBENZENE (surr) | | | | % | 95.0 | 70 | 130 | | | |
| DIBROMOFLUOROMETHANE (surr) | | | | % | 100.7 | 70 | 130 | | | |
| TOLUENE-D8 (surr) | | | | % | 103.9 | 70 | 130 | | | |

**MSD** **Sample ID: L83896-01MSD** **PCN/SCN: VO082010-1-SPI** **Analyzed: 08/24/10 20:19**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | U | 100.8 | ug/Kg | 100.8 | 70 | 130 | 1.4 | 20 | |
| 1,1,1-TRICHLOROETHANE | 100 | U | 92 | ug/Kg | 92.0 | 70 | 130 | 8.33 | 20 | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | U | 98.3 | ug/Kg | 98.3 | 70 | 130 | 0.31 | 20 | |
| 1,1,2-TRICHLOROETHANE | 100 | U | 97.9 | ug/Kg | 97.9 | 70 | 130 | 2.17 | 20 | |
| 1,1-DICHLOROETHANE | 100 | U | 90.3 | ug/Kg | 90.3 | 70 | 130 | 8.89 | 20 | |
| 1,1-DICHLOROETHENE | 100 | U | 88.9 | ug/Kg | 88.9 | 70 | 130 | 10.55 | 20 | |
| 1,1-DICHLOROPROPENE | 100 | U | 90.8 | ug/Kg | 90.8 | 70 | 130 | 9.44 | 20 | |
| 1,2,3-TRICHLOROBENZENE | 100 | 5 | 68.4 | ug/Kg | 63.4 | 70 | 130 | 4.57 | 20 | M2 |
| 1,2,3-TRICHLOROPROPANE | 100 | U | 99.4 | ug/Kg | 99.4 | 70 | 130 | 2.55 | 20 | |
| 1,2,4-TRICHLOROBENZENE | 100 | 4 | 73.6 | ug/Kg | 69.6 | 70 | 130 | 3.34 | 20 | |
| 1,2,4-TRIMETHYLBENZENE | 100 | U | 98.3 | ug/Kg | 98.3 | 70 | 130 | 2.47 | 20 | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | U | 91.7 | ug/Kg | 91.7 | 70 | 130 | 3.54 | 20 | |
| 1,2-DIBROMOETHANE | 100 | U | 95.7 | ug/Kg | 95.7 | 70 | 130 | 1.58 | 20 | |
| 1,2-DICHLOROBENZENE | 100 | U | 89.5 | ug/Kg | 89.5 | 70 | 130 | 0.11 | 20 | |
| 1,2-DICHLOROETHANE | 100 | U | 86 | ug/Kg | 86.0 | 70 | 130 | 9.42 | 20 | |
| 1,2-DICHLOROPROPANE | 100 | U | 97.3 | ug/Kg | 97.3 | 70 | 130 | 1.14 | 20 | |
| 1,3,5-TRIMETHYLBENZENE | 100 | U | 100.3 | ug/Kg | 100.3 | 70 | 130 | 2.32 | 20 | |
| 1,3-DICHLOROBENZENE | 100 | U | 93.1 | ug/Kg | 93.1 | 70 | 130 | 0.86 | 20 | |
| 1,3-DICHLOROPROPANE | 100 | U | 97.1 | ug/Kg | 97.1 | 70 | 130 | 2.61 | 20 | |

**Nu-West Industries, Inc.**

ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-DICHLOROBENZENE | 100 | U | 91.6 | ug/Kg | 91.6 | 70 | 130 | 0.33 | 20 | |
| 2,2-DICHLOROPROPANE | 100 | U | 92.2 | ug/Kg | 92.2 | 70 | 130 | 11.26 | 20 | |
| 2-BUTANONE | 200 | U | 174 | ug/Kg | 87.0 | 70 | 130 | 8.79 | 20 | |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | U | 99.1 | ug/Kg | 99.0 | 70 | 130 | 7.32 | 20 | |
| 2-CHLOROTOLUENE | 100 | U | 99.7 | ug/Kg | 99.7 | 70 | 130 | 1.82 | 20 | |
| 2-HEXANONE | 200 | U | 171 | ug/Kg | 85.5 | 70 | 130 | 1.77 | 20 | |
| 4-CHLOROTOLUENE | 100 | U | 97.1 | ug/Kg | 97.1 | 70 | 130 | 1.98 | 20 | |
| 4-ISOPROPYLTOLUENE | 100 | U | 97 | ug/Kg | 97.0 | 70 | 130 | 1.35 | 20 | |
| 4-METHYL-2-PENTANONE | 200 | U | 182 | ug/Kg | 91.0 | 70 | 130 | 0.55 | 20 | |
| ACETONE | 200 | U | 169 | ug/Kg | 84.5 | 70 | 130 | 10.64 | 20 | |
| ACRYLONITRILE | 100 | U | 81.8 | ug/Kg | 81.8 | 70 | 130 | 8.88 | 20 | |
| BENZENE | 100 | U | 90.7 | ug/Kg | 90.7 | 70 | 130 | 8.14 | 20 | |
| BROMOBENZENE | 100 | U | 97.9 | ug/Kg | 97.9 | 70 | 130 | 0.92 | 20 | |
| BROMOCHLOROMETHANE | 100 | U | 86.6 | ug/Kg | 86.6 | 70 | 130 | 10.09 | 20 | |
| BROMODICHLOROMETHANE | 100 | U | 95.8 | ug/Kg | 95.8 | 70 | 130 | 0 | 20 | |
| BROMOFORM | 100 | U | 96.2 | ug/Kg | 96.2 | 70 | 130 | 1.04 | 20 | |
| BROMOMETHANE | 100.1 | U | 87.4 | ug/Kg | 87.3 | 70 | 130 | 11.23 | 20 | |
| CARBON DISULFIDE | 100 | U | 87.6 | ug/Kg | 87.6 | 70 | 130 | 9.98 | 20 | |
| CARBON TETRACHLORIDE | 100 | U | 92 | ug/Kg | 92.0 | 70 | 130 | 8.33 | 20 | |
| CHLOROBENZENE | 100 | U | 96.9 | ug/Kg | 96.9 | 70 | 130 | 1.88 | 20 | |
| CHLOROETHANE | 100.4 | U | 88.8 | ug/Kg | 88.4 | 70 | 130 | 11.36 | 20 | |
| CHLOROFORM | 100 | U | 88.7 | ug/Kg | 88.7 | 70 | 130 | 10.47 | 20 | |
| CHLOROMETHANE | 100 | U | 88.5 | ug/Kg | 88.5 | 70 | 130 | 12.6 | 20 | |
| CIS-1,2-DICHLOROETHENE | 100 | U | 88.2 | ug/Kg | 88.2 | 70 | 130 | 10.83 | 20 | |
| CIS-1,3-DICHLOROPROPENE | 100 | U | 91.8 | ug/Kg | 91.8 | 70 | 130 | 0.66 | 20 | |
| DIBROMOCHLOROMETHANE | 100 | U | 101.3 | ug/Kg | 101.3 | 70 | 130 | 2.3 | 20 | |
| DIBROMOMETHANE | 100 | U | 92.3 | ug/Kg | 92.3 | 70 | 130 | 0.43 | 20 | |
| DICHLORODIFLUOROMETHANE | 100 | U | 87.7 | ug/Kg | 87.7 | 70 | 130 | 9.14 | 20 | |
| ETHYLBENZENE | 100 | U | 99.6 | ug/Kg | 99.6 | 70 | 130 | 2.44 | 20 | |
| HEXACHLOROBUTADIENE | 100 | U | 72.6 | ug/Kg | 72.6 | 70 | 130 | 0.83 | 20 | |
| ISOPROPYLBENZENE | 100 | U | 97.5 | ug/Kg | 97.5 | 70 | 130 | 1.65 | 20 | |
| M P XYLENE | 200 | U | 193 | ug/Kg | 96.5 | 70 | 130 | 2.62 | 20 | |
| METHYL TERT BUTYL ETHER | 100.1 | U | 87.1 | ug/Kg | 87.1 | 70 | 130 | 8.15 | 20 | |
| METHYLENE CHLORIDE | 100 | 5 | 83.1 | ug/Kg | 78.1 | 70 | 130 | 10.38 | 20 | |
| NAPHTHALENE | 100 | 6 | 70.2 | ug/Kg | 64.2 | 70 | 130 | 5 | 20 | M2 |
| N-BUTYLBENZENE | 100 | U | 90.7 | ug/Kg | 90.7 | 70 | 130 | 1.33 | 20 | |
| N-PROPYLBENZENE | 100 | U | 101.2 | ug/Kg | 101.2 | 70 | 130 | 2.1 | 20 | |
| O XYLENE | 100 | U | 97.2 | ug/Kg | 97.2 | 70 | 130 | 1.66 | 20 | |
| SEC-BUTYLBENZENE | 100 | U | 97.8 | ug/Kg | 97.8 | 70 | 130 | 1.13 | 20 | |
| STYRENE | 100 | U | 94.4 | ug/Kg | 94.4 | 70 | 130 | 1.6 | 20 | |
| TERT-BUTYLBENZENE | 100 | U | 102.9 | ug/Kg | 102.9 | 70 | 130 | 0.78 | 20 | |
| TETRACHLOROETHENE | 100 | U | 103.4 | ug/Kg | 103.4 | 70 | 130 | 8.68 | 20 | |
| TOLUENE | 100 | U | 101.6 | ug/Kg | 101.6 | 70 | 130 | 2.9 | 20 | |
| TRANS-1,2-DICHLOROETHENE | 100 | U | 89.6 | ug/Kg | 89.6 | 70 | 130 | 9.67 | 20 | |
| TRANS-1,3-DICHLOROPROPENE | 100 | U | 97.1 | ug/Kg | 97.1 | 70 | 130 | 2.71 | 20 | |
| TRICHLOROETHENE | 100 | U | 96.5 | ug/Kg | 96.5 | 70 | 130 | 1.04 | 20 | |
| TRICHLOROFLUOROMETHANE | 100.1 | U | 88.3 | ug/Kg | 88.2 | 70 | 130 | 15.37 | 20 | |
| VINYL ACETATE | 100 | U | U | ug/Kg | 0.0 | 70 | 130 | | 20 | M2 |
| VINYL CHLORIDE | 100.3 | U | 89.9 | ug/Kg | 89.7 | 70 | 130 | 10.54 | 20 | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | |
|---|---|---|---|---|
| BROMOFLUOROBENZENE (surr) | % | 96.9 | 70 | 130 |
| DIBROMOFLUOROMETHANE (surr) | % | 89.5 | 70 | 130 |
| TOLUENE-D8 (surr) | % | 104.5 | 70 | 130 |

**LCSS** **Sample ID: WG288403LCSS** **PCN/SCN: VO082010-1-SPI** **Analyzed: 08/24/10 18:38**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | | 101.9 | ug/Kg | 101.9 | 70 | 130 | | | |
| 1,1,1-TRICHLOROETHANE | 100 | | 101 | ug/Kg | 101.0 | 70 | 130 | | | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | | 99.1 | ug/Kg | 99.1 | 70 | 130 | | | |
| 1,1,2-TRICHLOROETHANE | 100 | | 99.8 | ug/Kg | 99.8 | 70 | 130 | | | |
| 1,1-DICHLOROETHANE | 100 | | 99.6 | ug/Kg | 99.6 | 70 | 130 | | | |
| 1,1-DICHLOROETHENE | 100 | | 101 | ug/Kg | 101.0 | 70 | 130 | | | |
| 1,1-DICHLOROPROPENE | 100 | | 100.8 | ug/Kg | 100.8 | 70 | 130 | | | |
| 1,2,3-TRICHLOROBENZENE | 100 | | 98.7 | ug/Kg | 98.7 | 70 | 130 | | | |
| 1,2,3-TRICHLOROPROPANE | 100 | | 96.6 | ug/Kg | 96.6 | 70 | 130 | | | |
| 1,2,4-TRICHLOROBENZENE | 100 | | 101.9 | ug/Kg | 101.9 | 70 | 130 | | | |
| 1,2,4-TRIMETHYLBENZENE | 100 | | 100.1 | ug/Kg | 100.1 | 70 | 130 | | | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | | 100.5 | ug/Kg | 100.5 | 70 | 130 | | | |
| 1,2-DIBROMOETHANE | 100 | | 101.8 | ug/Kg | 101.8 | 70 | 130 | | | |
| 1,2-DICHLOROBENZENE | 100 | | 99.4 | ug/Kg | 99.4 | 70 | 130 | | | |
| 1,2-DICHLOROETHANE | 100 | | 98.4 | ug/Kg | 98.4 | 70 | 130 | | | |
| 1,2-DICHLOROPROPANE | 100 | | 101.6 | ug/Kg | 101.6 | 70 | 130 | | | |
| 1,3,5-TRIMETHYLBENZENE | 100 | | 100.6 | ug/Kg | 100.6 | 70 | 130 | | | |
| 1,3-DICHLOROBENZENE | 100 | | 100.6 | ug/Kg | 100.6 | 70 | 130 | | | |
| 1,3-DICHLOROPROPANE | 100 | | 99.7 | ug/Kg | 99.7 | 70 | 130 | | | |
| 1,4-DICHLOROBENZENE | 100 | | 100.4 | ug/Kg | 100.4 | 70 | 130 | | | |
| 2,2-DICHLOROPROPANE | 100 | | 100.7 | ug/Kg | 100.7 | 70 | 130 | | | |
| 2-BUTANONE | 200 | | 185 | ug/Kg | 92.5 | 70 | 130 | | | |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | | 106.3 | ug/Kg | 106.2 | 70 | 130 | | | |
| 2-CHLOROTOLUENE | 100 | | 101.2 | ug/Kg | 101.2 | 70 | 130 | | | |
| 2-HEXANONE | 200 | | 195 | ug/Kg | 97.5 | 70 | 130 | | | |
| 4-CHLOROTOLUENE | 100 | | 99.9 | ug/Kg | 99.9 | 70 | 130 | | | |
| 4-ISOPROPYLTOLUENE | 100 | | 101.1 | ug/Kg | 101.1 | 70 | 130 | | | |
| 4-METHYL-2-PENTANONE | 200 | | 198 | ug/Kg | 99.0 | 70 | 130 | | | |
| ACETONE | 200 | | 183 | ug/Kg | 91.5 | 70 | 130 | | | |
| ACRYLONITRILE | 100 | | 86.1 | ug/Kg | 86.1 | 70 | 130 | | | |
| BENZENE | 100 | | 99.6 | ug/Kg | 99.6 | 70 | 130 | | | |
| BROMOBENZENE | 100 | | 100.3 | ug/Kg | 100.3 | 70 | 130 | | | |
| BROMOCHLOROMETHANE | 100 | | 98.3 | ug/Kg | 98.3 | 70 | 130 | | | |
| BROMODICHLOROMETHANE | 100 | | 104 | ug/Kg | 104.0 | 70 | 130 | | | |
| BROMOFORM | 100 | | 103.6 | ug/Kg | 103.6 | 70 | 130 | | | |
| BROMOMETHANE | 100.1 | | 101.1 | ug/Kg | 101.0 | 70 | 130 | | | |
| CARBON DISULFIDE | 100 | | 101.1 | ug/Kg | 101.1 | 70 | 130 | | | |
| CARBON TETRACHLORIDE | 100 | | 103 | ug/Kg | 103.0 | 70 | 130 | | | |
| CHLOROBENZENE | 100 | | 100.7 | ug/Kg | 100.7 | 70 | 130 | | | |
| CHLOROETHANE | 100.4 | | 100.7 | ug/Kg | 100.3 | 70 | 130 | | | |
| CHLOROFORM | 100 | | 99.1 | ug/Kg | 99.1 | 70 | 130 | | | |
| CHLOROMETHANE | 100 | | 101.8 | ug/Kg | 101.9 | 70 | 130 | | | |
| CIS-1,2-DICHLOROETHENE | 100 | | 101.3 | ug/Kg | 101.3 | 70 | 130 | | | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CIS-1,3-DICHLOROPROPENE | 100 | | 103.3 | ug/Kg | 103.3 | 70 | 130 |
| DIBROMOCHLOROMETHANE | 100 | | 104.2 | ug/Kg | 104.2 | 70 | 130 |
| DIBROMOMETHANE | 100 | | 102.5 | ug/Kg | 102.5 | 70 | 130 |
| DICHLORODIFLUOROMETHANE | 100 | | 99.9 | ug/Kg | 99.9 | 70 | 130 |
| ETHYLBENZENE | 100 | | 101.9 | ug/Kg | 101.9 | 70 | 130 |
| HEXACHLOROBUTADIENE | 100 | | 98.3 | ug/Kg | 98.3 | 70 | 130 |
| ISOPROPYLBENZENE | 100 | | 100.6 | ug/Kg | 100.6 | 70 | 130 |
| M P XYLENE | 200 | | 200 | ug/Kg | 100.0 | 70 | 130 |
| METHYL TERT BUTYL ETHER | 100.1 | | 98.6 | ug/Kg | 98.6 | 70 | 130 |
| METHYLENE CHLORIDE | 100 | | 94.3 | ug/Kg | 94.3 | 70 | 130 |
| NAPHTHALENE | 100 | | 99.7 | ug/Kg | 99.7 | 70 | 130 |
| N-BUTYLBENZENE | 100 | | 101.4 | ug/Kg | 101.4 | 70 | 130 |
| N-PROPYLBENZENE | 100 | | 101.8 | ug/Kg | 101.8 | 70 | 130 |
| O XYLENE | 100 | | 99.9 | ug/Kg | 99.9 | 70 | 130 |
| SEC-BUTYLBENZENE | 100 | | 100.5 | ug/Kg | 100.5 | 70 | 130 |
| STYRENE | 100 | | 101.5 | ug/Kg | 101.5 | 70 | 130 |
| TERT-BUTYLBENZENE | 100 | | 100.6 | ug/Kg | 100.6 | 70 | 130 |
| TETRACHLOROETHENE | 100 | | 105.5 | ug/Kg | 105.5 | 70 | 130 |
| TOLUENE | 100 | | 101.8 | ug/Kg | 101.8 | 70 | 130 |
| TRANS-1,2-DICHLOROETHENE | 100 | | 100.7 | ug/Kg | 100.7 | 70 | 130 |
| TRANS-1,3-DICHLOROPROPENE | 100 | | 103 | ug/Kg | 103.0 | 70 | 130 |
| TRICHLOROETHENE | 100 | | 104.8 | ug/Kg | 104.8 | 70 | 130 |
| TRICHLOROFLUOROMETHANE | 100.1 | | 105.4 | ug/Kg | 105.3 | 70 | 130 |
| VINYL ACETATE | 100 | | 98.7 | ug/Kg | 98.7 | 70 | 130 |
| VINYL CHLORIDE | 100.3 | | 102.2 | ug/Kg | 101.9 | 70 | 130 |
| BROMOFLUOROBENZENE (surr) | | | | % | 99.2 | 70 | 130 |
| DIBROMOFLUOROMETHANE (surr) | | | | % | 96.6 | 70 | 130 |
| TOLUENE-D8 (surr) | | | | % | 100.0 | 70 | 130 |

**LCSSD** **Sample ID: WG288403LCSSD** **PCN/SCN: VO082010-1-SPI** **Analyzed: 08/24/10 19:03**

| Compound | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-TETRACHLOROETHANE | 100 | | 98.7 | ug/Kg | 98.7 | 70 | 130 | 3.2 | 20 | |
| 1,1,1-TRICHLOROETHANE | 100 | | 107 | ug/Kg | 107.0 | 70 | 130 | 5.8 | 20 | |
| 1,1,2,2-TETRACHLOROETHANE | 100 | | 91.3 | ug/Kg | 91.3 | 70 | 130 | 8.2 | 20 | |
| 1,1,2-TRICHLOROETHANE | 100 | | 97.5 | ug/Kg | 97.5 | 70 | 130 | 2.3 | 20 | |
| 1,1-DICHLOROETHANE | 100 | | 105.7 | ug/Kg | 105.7 | 70 | 130 | 5.9 | 20 | |
| 1,1-DICHLOROETHENE | 100 | | 106.2 | ug/Kg | 106.2 | 70 | 130 | 5 | 20 | |
| 1,1-DICHLOROPROPENE | 100 | | 107.8 | ug/Kg | 107.8 | 70 | 130 | 6.7 | 20 | |
| 1,2,3-TRICHLOROBENZENE | 100 | | 102.3 | ug/Kg | 102.3 | 70 | 130 | 3.6 | 20 | |
| 1,2,3-TRICHLOROPROPANE | 100 | | 91.3 | ug/Kg | 91.3 | 70 | 130 | 5.6 | 20 | |
| 1,2,4-TRICHLOROBENZENE | 100 | | 100.8 | ug/Kg | 100.8 | 70 | 130 | 1.1 | 20 | |
| 1,2,4-TRIMETHYLBENZENE | 100 | | 93.7 | ug/Kg | 93.7 | 70 | 130 | 6.6 | 20 | |
| 1,2-DIBROMO-3-CHLOROPROPANE | 100 | | 97 | ug/Kg | 97.0 | 70 | 130 | 3.5 | 20 | |
| 1,2-DIBROMOETHANE | 100 | | 98.5 | ug/Kg | 98.5 | 70 | 130 | 3.3 | 20 | |
| 1,2-DICHLOROBENZENE | 100 | | 93.3 | ug/Kg | 93.3 | 70 | 130 | 6.3 | 20 | |
| 1,2-DICHLOROETHANE | 100 | | 104.4 | ug/Kg | 104.4 | 70 | 130 | 5.9 | 20 | |
| 1,2-DICHLOROPROPANE | 100 | | 106 | ug/Kg | 106.0 | 70 | 130 | 4.2 | 20 | |
| 1,3,5-TRIMETHYLBENZENE | 100 | | 93.5 | ug/Kg | 93.5 | 70 | 130 | 7.3 | 20 | |
| 1,3-DICHLOROBENZENE | 100 | | 93.4 | ug/Kg | 93.4 | 70 | 130 | 7.4 | 20 | |

**Nu-West Industries, Inc.**

ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,3-DICHLOROPROPANE | 100 | 96.7 | ug/Kg | 96.7 | 70 | 130 | 3.1 | 20 |
| 1,4-DICHLOROBENZENE | 100 | 93.6 | ug/Kg | 93.6 | 70 | 130 | 7 | 20 |
| 2,2-DICHLOROPROPANE | 100 | 106 | ug/Kg | 106.0 | 70 | 130 | 5.1 | 20 |
| 2-BUTANONE | 200 | 206 | ug/Kg | 103.0 | 70 | 130 | 10.7 | 20 |
| 2-CHLOROETHYL VINYL ETHER | 100.1 | 109.9 | ug/Kg | 109.8 | 70 | 130 | 3.3 | 20 |
| 2-CHLOROTOLUENE | 100 | 93.4 | ug/Kg | 93.4 | 70 | 130 | 8 | 20 |
| 2-HEXANONE | 200 | 192 | ug/Kg | 96.0 | 70 | 130 | 1.6 | 20 |
| 4-CHLOROTOLUENE | 100 | 92 | ug/Kg | 92.0 | 70 | 130 | 8.2 | 20 |
| 4-ISOPROPYLTOLUENE | 100 | 94.4 | ug/Kg | 94.4 | 70 | 130 | 6.9 | 20 |
| 4-METHYL-2-PENTANONE | 200 | 206 | ug/Kg | 103.0 | 70 | 130 | 4 | 20 |
| ACETONE | 200 | 205 | ug/Kg | 102.5 | 70 | 130 | 11.3 | 20 |
| ACRYLONITRILE | 100 | 95.9 | ug/Kg | 95.9 | 70 | 130 | 10.8 | 20 |
| BENZENE | 100 | 106.2 | ug/Kg | 106.2 | 70 | 130 | 6.4 | 20 |
| BROMOBENZENE | 100 | 92.8 | ug/Kg | 92.8 | 70 | 130 | 7.8 | 20 |
| BROMOCHLOROMETHANE | 100 | 104 | ug/Kg | 104.0 | 70 | 130 | 5.6 | 20 |
| BROMODICHLOROMETHANE | 100 | 107.3 | ug/Kg | 107.3 | 70 | 130 | 3.1 | 20 |
| BROMOFORM | 100 | 102.4 | ug/Kg | 102.4 | 70 | 130 | 1.2 | 20 |
| BROMOMETHANE | 100.1 | 105 | ug/Kg | 104.9 | 70 | 130 | 3.8 | 20 |
| CARBON DISULFIDE | 100 | 107.5 | ug/Kg | 107.5 | 70 | 130 | 6.1 | 20 |
| CARBON TETRACHLORIDE | 100 | 108 | ug/Kg | 108.0 | 70 | 130 | 4.7 | 20 |
| CHLOROBENZENE | 100 | 97.6 | ug/Kg | 97.6 | 70 | 130 | 3.1 | 20 |
| CHLOROETHANE | 100.4 | 104.9 | ug/Kg | 104.5 | 70 | 130 | 4.1 | 20 |
| CHLOROFORM | 100 | 104.7 | ug/Kg | 104.7 | 70 | 130 | 5.5 | 20 |
| CHLOROMETHANE | 100 | 102.5 | ug/Kg | 102.6 | 70 | 130 | 0.7 | 20 |
| CIS-1,2-DICHLOROETHENE | 100 | 106.1 | ug/Kg | 106.1 | 70 | 130 | 4.6 | 20 |
| CIS-1,3-DICHLOROPROPENE | 100 | 107.4 | ug/Kg | 107.4 | 70 | 130 | 3.9 | 20 |
| DIBROMOCHLOROMETHANE | 100 | 100.8 | ug/Kg | 100.8 | 70 | 130 | 3.3 | 20 |
| DIBROMOMETHANE | 100 | 104.8 | ug/Kg | 104.8 | 70 | 130 | 2.2 | 20 |
| DICHLORODIFLUOROMETHANE | 100 | 103.4 | ug/Kg | 103.5 | 70 | 130 | 3.4 | 20 |
| ETHYLBENZENE | 100 | 98.5 | ug/Kg | 98.5 | 70 | 130 | 3.4 | 20 |
| HEXACHLOROBUTADIENE | 100 | 102.1 | ug/Kg | 102.1 | 70 | 130 | 3.8 | 20 |
| ISOPROPYLBENZENE | 100 | 98.6 | ug/Kg | 98.6 | 70 | 130 | 2 | 20 |
| M P XYLENE | 200 | 194 | ug/Kg | 97.0 | 70 | 130 | 3 | 20 |
| METHYL TERT BUTYL ETHER | 100.1 | 103.6 | ug/Kg | 103.5 | 70 | 130 | 4.9 | 20 |
| METHYLENE CHLORIDE | 100 | 98.1 | ug/Kg | 98.1 | 70 | 130 | 4 | 20 |
| NAPHTHALENE | 100 | 101.5 | ug/Kg | 101.5 | 70 | 130 | 1.8 | 20 |
| N-BUTYLBENZENE | 100 | 95.1 | ug/Kg | 95.1 | 70 | 130 | 6.4 | 20 |
| N-PROPYLBENZENE | 100 | 93.6 | ug/Kg | 93.6 | 70 | 130 | 8.4 | 20 |
| O XYLENE | 100 | 96.7 | ug/Kg | 96.7 | 70 | 130 | 3.3 | 20 |
| SEC-BUTYLBENZENE | 100 | 94.3 | ug/Kg | 94.3 | 70 | 130 | 6.4 | 20 |
| STYRENE | 100 | 98.4 | ug/Kg | 98.4 | 70 | 130 | 3.1 | 20 |
| TERT-BUTYLBENZENE | 100 | 93.7 | ug/Kg | 93.7 | 70 | 130 | 7.1 | 20 |
| TETRACHLOROETHENE | 100 | 102.7 | ug/Kg | 102.7 | 70 | 130 | 2.7 | 20 |
| TOLUENE | 100 | 98.2 | ug/Kg | 98.2 | 70 | 130 | 3.6 | 20 |
| TRANS-1,2-DICHLOROETHENE | 100 | 106.1 | ug/Kg | 106.1 | 70 | 130 | 5.2 | 20 |
| TRANS-1,3-DICHLOROPROPENE | 100 | 99.7 | ug/Kg | 99.7 | 70 | 130 | 3.3 | 20 |
| TRICHLOROETHENE | 100 | 106.3 | ug/Kg | 106.3 | 70 | 130 | 1.4 | 20 |
| TRICHLOROFLUOROMETHANE | 100.1 | 109.2 | ug/Kg | 109.1 | 70 | 130 | 3.5 | 20 |
| VINYL ACETATE | 100 | 106 | ug/Kg | 106.0 | 70 | 130 | 7.1 | 20 |

**Nu-West Industries, Inc.**

ACZ Project ID: ***L83896***

Project ID: PILE 1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VINYL CHLORIDE | 100.3 | 104.9 | ug/Kg | 104.6 | 70 | 130 | 2.6 | 20 |
| BROMOFLUOROBENZENE (surr) | | | % | 102.2 | 70 | 130 | | |
| DIBROMOFLUOROMETHANE (surr) | | | % | 108.3 | 70 | 130 | | |
| TOLUENE-D8 (surr) | | | % | 95.1 | 70 | 130 | | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83896***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| **L83896-01** | WG288636 | Acenaphthene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Pyrene | M8270C GC/MS | N1 | See Case Narrative. |
| | WG288403 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| **L83896-02** | WG288636 | *All Compounds* | M8270C GC/MS | DD | Sample required dilution due to matrix color or odor. |
| | | Acenaphthene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Pyrene | M8270C GC/MS | N1 | See Case Narrative. |
| | WG288403 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| **L83896-03** | WG288636 | Acenaphthene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Pyrene | M8270C GC/MS | N1 | See Case Narrative. |
| | WG288403 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| **L83896-04** | WG288636 | Acenaphthene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Pyrene | M8270C GC/MS | N1 | See Case Narrative. |
| | WG288403 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| **L83896-05** | WG288636 | Acenaphthene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Pyrene | M8270C GC/MS | N1 | See Case Narrative. |
| | WG288403 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the |

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | associated control sample (LCS or LFB) was acceptable. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| **L83896-06** | WG288636 | Acenaphthene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Pyrene | M8270C GC/MS | N1 | See Case Narrative. |
| | WG288403 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |
| **L83896-07** | WG288636 | Acenaphthene | M8270C GC/MS | N1 | See Case Narrative. |
| | | Pyrene | M8270C GC/MS | N1 | See Case Narrative. |
| | WG288403 | *All Compounds* | M8260B GC/MS | ZM | Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035. |
| | | 1,2,3-Trichlorobenzene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Naphthalene | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Vinyl Acetate | M8260B GC/MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M8260B GC/MS | VC | CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL]. |

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Sample Receipt

**Nu-West Industries, Inc.**
4800042488

ACZ Project ID: L83896
Date Received: 08/20/2010 09:49
Received By: gac
Date Printed: 8/20/2010

## Receipt Verification

| | YES | NO | NA |
|---|---|---|---|
| 1) Does this project require special handling procedures such as CLP protocol? | | | X |
| 2) Are the custody seals on the cooler intact? | X | | |
| 3) Are the custody seals on the sample containers intact? | | | X |
| 4) Is there a Chain of Custody or other directive shipping papers present? | X | | |
| 5) Is the Chain of Custody complete? | X | | |
| 6) Is the Chain of Custody in agreement with the samples received? | X | | |
| 7) Is there enough sample for all requested analyses? | X | | |
| 8) Are all samples within holding times for requested analyses? | X | | |
| 9) Were all sample containers received intact? | X | | |
| 10) Are the temperature blanks present? | | | X |
| 11) Are the trip blanks (VOA and/or Cyanide) present? | | | X |
| 12) Are samples requiring no headspace, headspace free? | | | X |
| 13) Do the samples that require a Foreign Soils Permit have one? | | | X |

## Exceptions: If you answered no to any of the above questions, please describe

N/A

## Contact (For any discrepancies, the client must be contacted)

N/A

## Shipping Containers

| Cooler Id | | Temp (°C) | Rad (µR/hr) |
|---|---|---|---|
| 1976 | | 1.4 | 18 |
| | | | |
| | | | |
| | | | |

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

## Notes

# ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

## Sample Receipt

**Nu-West Industries, Inc.**
4800042488

ACZ Project ID: L83896
Date Received: 08/20/2010 09:49
Received By: gac
Date Printed: 8/20/2010

## Sample Container Preservation

| SAMPLE | CLIENT ID | R < 2 | G < 2 | BK < 2 | Y< 2 | YG< 2 | B< 2 | O < 2 | T >12 | N/A | RAD | ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L83896-01 | PILE 1 | | | | | | | | | X | | |
| L83896-02 | PILE 2 | | | | | | | | | X | | |
| L83896-03 | PILE 4 | | | | | | | | | X | | |
| L83896-04 | PILE 6 | | | | | | | | | X | | |
| L83896-05 | PILE 10 | | | | | | | | | X | | |
| L83896-06 | PILE 3-5-7 | | | | | | | | | X | | |
| L83896-07 | PILE 3-5-7 NO 2 | | | | | | | | | X | | |

## Sample Container Preservation Legend

| Abbreviation | Description | Container Type | Preservative/Limits |
|---|---|---|---|
| R | Raw/Nitric | RED | pH must be < 2 |
| B | Filtered/Sulfuric | BLUE | pH must be < 2 |
| BK | Filtered/Nitric | BLACK | pH must be < 2 |
| G | Filtered/Nitric | GREEN | pH must be < 2 |
| O | Raw/Sulfuric | ORANGE | pH must be < 2 |
| P | Raw/NaOH | PURPLE | pH must be > 12 * |
| T | Raw/NaOH Zinc Acetate | TAN | pH must be > 12 |
| Y | Raw/Sulfuric | YELLOW | pH must be < 2 |
| YG | Raw/Sulfuric | YELLOW GLASS | pH must be < 2 |
| N/A | No preservative needed | Not applicable | |
| RAD | Gamma/Beta dose rate | Not applicable | must be < 250 µR/hr |

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac

**ACZ Laboratories, Inc.** L83896

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# CHAIN of CUSTODY

**Report to:**

Name: Mitch Hart
Company: No-West
E-mail: mhart@agrium.com
Address: 3010 Conda Rd
Soda Springs ID 83276
Telephone: 303-883-1184

**Copy of Report to:**

Name: JB Brown
Company: GET
E-mail: strater4@comcast.net
Telephone: 801-463-0902

**Invoice to:**

Name: Accts Payable-
Company: Agrium
E-mail:
Address: 3010 Conda Rd
Soda Springs, ID 83276
Telephone: 208-547-4381

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring? Yes [ ] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: JB Brown Sampler's site Information State: ID Zip code: 83276 Time Zone: MT

**PROJECT INFORMATION**

Quote #: 4800042488
Project/PO #: 4800042488
Reporting state for compliance testing: NO
Are any samples NRC licensable material? Yes / No

ANALYSES REQUESTED (attach list or use quote number)

| SAMPLE IDENTIFICATION | DATE:TIME | Matrix | # of Containers | Method M8270C | Method M8260B | TPH | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pile 1 | 8-17-10 1805 | SO | 2 | X | X | X | | | | | |
| Pile 2 | 8-17-10 1825 | SO | 2 | X | X | X | | | | | |
| Pile 4 | 8-17-10 1845 | SO | 2 | X | X | X | | | | | |
| Pile 6 | 8-17-10 1915 | SO | 2 | X | X | X | | | | | |
| Pile 10 | 8-17-10 2000 | SO | 2 | X | X | X | | | | | |
| Pile 3-5-7 | 8-17-10 1935 | SO | 2 | X | X | X | | | | | |
| Pile 3-5-7 No.2 | 8-17-10 1955 | SO | 2 | X | X | X | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

**REMARKS**

Cooler ID 1976 — Rush Analysis
Copy of report to: jbwillia@agrium.com
Copy of report to cemmons@norwestcorp.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

| RELINQUISHED BY: | DATE:TIME | RECEIVED BY: | DATE:TIME |
|---|---|---|---|
| [signature] | 8-19-10 7:30 AM | [signature] | 8-20-10 0950 |

FRMAD050.02.17.10 White - Return with sample. Yellow - Retain for your records.

| BNA Spike Compound Spreadsheet for PAH Spiked Compounds | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Conc | Spike TV | MS Conc | MS Rec % | MSD Conc | MSD Rec % | RPD | | Acceptance Low | Acceptance High | MS Pass Y/N | MSD Pass Y/N | |
| Phenol | 0 | 75 | 58.62 | **78.16** | 51.06 | **68.08** | **13.78556** | | 0 | 115 | **YES** | **YES** | |
| 2-chlorophenol | 0 | 75 | 57.92 | **77.226667** | 49.28 | **65.7066667** | **16.1194** | | 35 | 105 | **YES** | **YES** | |
| 1,4 -Dichlorobenzene | 0 | 50 | 37.64 | **75.28** | 32.96 | **65.92** | **13.25779** | | 30 | 100 | **YES** | **YES** | |
| N-Nitrosodi-n-proplyamine | 0 | 50 | 44.3 | **88.6** | 37.96 | **75.92** | **15.41454** | | 35 | 130 | **YES** | **YES** | |
| 1,2,4-Trichlorobenzene | 0 | 50 | 39.28 | **78.56** | 34.6 | **69.2** | **12.66919** | | 35 | 105 | **YES** | **YES** | |
| 4-Chloro-3-methylphenol | 0 | 75 | 62.42 | **83.226667** | 58.98 | **78.64** | **5.667216** | | 45 | 110 | **YES** | **YES** | |
| Acenaphthene | 0 | 50 | 41.64 | **83.28** | 38.76 | **77.52** | **7.164179** | | 45 | 110 | **YES** | **YES** | |
| 4-Nitrophenol | 0 | 75 | 53.76 | **71.68** | 55.5 | **74** | **3.185063** | | 0 | 125 | **YES** | **YES** | |
| 2,4-Dinitrotoluene | 0 | 50 | 44.06 | **88.12** | 41.66 | **83.32** | **5.599627** | | 50 | 120 | **YES** | **YES** | |
| Pentachlorophenol | 0 | 75 | 22.62 | **30.16** | 16.3 | **21.7333333** | **32.47688** | FAIL | 40 | 115 | **NO** | **NO** | |
| Pyrene | 0 | 50 | 42.5 | **85** | 38.32 | **76.64** | **10.34397** | | 50 | 130 | **YES** | **YES** | |

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Analytical Report

September 02, 2010

Report to:
Mitch Hart
Nu-West Industries, Inc.
3010 Conda Road
Soda Springs, ID 83276

Bill to:
Accounts Payable
Nu-West Industries, Inc.
P.O. Box 5000, Station A
Calgary, Canada, AB T2H 3B9

cc: JB Brown

Project ID: 4800042488
ACZ Project ID: L83799

Mitch Hart:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 13, 2010. This project has been assigned to ACZ's project number, L83799. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L83799. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 02, 2010. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Tony Antalek has reviewed and approved this report.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Inorganic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: CF DRAINFIELD 1

ACZ Sample ID: ***L83799-01***
Date Sampled: *08/12/10 09:35*
Date Received: *08/13/10*
Sample Matrix: *Soil*

Inorganic Prep

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid Digestion | | | | | | | 08/19/10 16:21 | mpb |

Metals Analysis

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum, total (3050) | M6010B ICP | 16000 | | * | mg/Kg | 3 | 20 | 08/25/10 0:12 | aeh |
| Antimony, total (3050) | M6020 ICP-MS | 0.3 | B | * | mg/Kg | 0.2 | 1 | 08/31/10 11:34 | msh |
| Arsenic, total (3050) | M6020 ICP-MS | 6.1 | | | mg/Kg | 0.3 | 1 | 08/31/10 11:34 | msh |
| Barium, total (3050) | M6010B ICP | 83.2 | | * | mg/Kg | 0.3 | 2 | 08/25/10 0:12 | aeh |
| Beryllium, total (3050) | M6010B ICP | 0.8 | B | * | mg/Kg | 0.2 | 1 | 08/25/10 0:12 | aeh |
| Cadmium, total (3050) | M6010B ICP | 2.7 | | * | mg/Kg | 0.5 | 2 | 08/25/10 0:12 | aeh |
| Calcium, total (3050) | M6010B ICP | 50200 | | * | mg/Kg | 20 | 100 | 08/25/10 0:12 | aeh |
| Chromium, total (3050) | M6010B ICP | 54 | | | mg/Kg | 1 | 5 | 08/25/10 0:12 | aeh |
| Copper, total (3050) | M6010B ICP | 18 | | | mg/Kg | 1 | 5 | 08/25/10 0:12 | aeh |
| Iron, total (3050) | M6010B ICP | 17200 | | * | mg/Kg | 2 | 5 | 08/25/10 0:12 | aeh |
| Lead, total (3050) | M6020 ICP-MS | 11.40 | | | mg/Kg | 0.05 | 0.3 | 08/31/10 11:34 | msh |
| Magnesium, total (3050) | M6010B ICP | 13500 | | | mg/Kg | 20 | 100 | 08/25/10 0:12 | aeh |
| Manganese, total (3050) | M6010B ICP | 858 | | * | mg/Kg | 0.5 | 3 | 08/25/10 0:12 | aeh |
| Mercury by Direct Combustion AA | M7473 | 28 | | | ng/g | 0.927 | 4.635 | 08/25/10 18:38 | wfg |
| Molybdenum, total (3050) | M6010B ICP | 4 | B | * | mg/Kg | 1 | 5 | 08/25/10 0:12 | aeh |
| Nickel, total (3050) | M6010B ICP | 36 | | * | mg/Kg | 1 | 5 | 08/25/10 0:12 | aeh |
| Potassium, total (3050) | M6010B ICP | 3820 | | | mg/Kg | 30 | 200 | 08/25/10 0:12 | aeh |
| Selenium, total (3050) | M7742 Modified, AA-Hydride | 1.2 | B | * | mg/Kg | 0.5 | 3 | 09/01/10 12:09 | erf |
| Silver, total (3050) | M6020 ICP-MS | 0.32 | | | mg/Kg | 0.03 | 0.1 | 08/31/10 11:34 | msh |
| Sodium, total (3050) | M6010B ICP | 210 | | * | mg/Kg | 30 | 200 | 08/25/10 0:12 | aeh |
| Thallium, total (3050) | M6020 ICP-MS | 0.29 | B | | mg/Kg | 0.05 | 0.3 | 08/31/10 11:34 | msh |
| Vanadium, total (3050) | M6010B ICP | 54.7 | | * | mg/Kg | 0.5 | 3 | 08/25/10 0:12 | aeh |
| Zinc, total (3050) | M6010B ICP | 158 | | * | mg/Kg | 1 | 5 | 08/25/10 0:12 | aeh |

Soil Analysis

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| pH, Corrosivity | M9045D/M9040C | | | | | | | | |
| pH | | 8.1 | | | units | 0.1 | 0.1 | 08/18/10 0:00 | bsu |
| pH measured at | | 24.4 | | | C | 0.1 | 0.1 | 08/18/10 0:00 | bsu |
| Solids, Percent | CLPSOW390, PART F, D-98 | 95.6 | | * | % | 0.1 | 0.5 | 08/24/10 15:20 | zsh |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Inorganic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: CF DRAINFIELD 1

ACZ Sample ID: ***L83799-01***
Date Sampled: *08/12/10 09:35*
Date Received: *08/13/10*
Sample Matrix: *Soil*

Soil Preparation

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Air Dry at 34 Degrees C | USDA No. 1, 1972 | | | | | | | 08/18/10 12:06 | bsu |
| Digestion - Hot Plate | M3050B ICP | | | | | | | 08/23/10 15:52 | meg/brd |
| Digestion - Hot Plate | M3050B ICP-MS | | | | | | | 08/23/10 15:52 | meg/brd |
| Sieve-2000 um (2.0mm) | ASA No.9, 15-4.2.2 | | | | | | | 08/18/10 13:21 | brd |

Wet Chemistry

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) | 0.511 | | * | % | 0.005 | 0.02 | 08/21/10 16:10 | pjb |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Inorganic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: CF DRAINFIELD 2

ACZ Sample ID: ***L83799-02***
Date Sampled: *08/12/10 09:25*
Date Received: *08/13/10*
Sample Matrix: *Soil*

Inorganic Prep

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid Digestion | | | | | | | 08/19/10 16:59 | mpb |

Metals Analysis

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum, total (3050) | M6010B ICP | 16600 | | * | mg/Kg | 3 | 20 | 08/25/10 0:24 | aeh |
| Antimony, total (3050) | M6020 ICP-MS | 0.3 | B | * | mg/Kg | 0.2 | 1 | 08/31/10 11:49 | msh |
| Arsenic, total (3050) | M6020 ICP-MS | 6.6 | | | mg/Kg | 0.3 | 1 | 08/31/10 11:49 | msh |
| Barium, total (3050) | M6010B ICP | 86.8 | | * | mg/Kg | 0.3 | 2 | 08/25/10 0:24 | aeh |
| Beryllium, total (3050) | M6010B ICP | 0.8 | B | * | mg/Kg | 0.2 | 1 | 08/25/10 0:24 | aeh |
| Cadmium, total (3050) | M6010B ICP | 3.2 | | * | mg/Kg | 0.5 | 2 | 08/25/10 0:24 | aeh |
| Calcium, total (3050) | M6010B ICP | 51000 | | * | mg/Kg | 20 | 100 | 08/25/10 0:24 | aeh |
| Chromium, total (3050) | M6010B ICP | 59 | | | mg/Kg | 1 | 5 | 08/25/10 0:24 | aeh |
| Copper, total (3050) | M6010B ICP | 20 | | | mg/Kg | 1 | 5 | 08/25/10 0:24 | aeh |
| Iron, total (3050) | M6010B ICP | 18400 | | * | mg/Kg | 2 | 5 | 08/25/10 0:24 | aeh |
| Lead, total (3050) | M6020 ICP-MS | 12.00 | | | mg/Kg | 0.05 | 0.3 | 08/31/10 11:49 | msh |
| Magnesium, total (3050) | M6010B ICP | 13400 | | | mg/Kg | 20 | 100 | 08/25/10 0:24 | aeh |
| Manganese, total (3050) | M6010B ICP | 929 | | * | mg/Kg | 0.5 | 3 | 08/25/10 0:24 | aeh |
| Mercury by Direct Combustion AA | M7473 | 34.9 | | | ng/g | 0.816 | 4.08 | 08/25/10 18:59 | wfg |
| Molybdenum, total (3050) | M6010B ICP | 4 | B | * | mg/Kg | 1 | 5 | 08/25/10 0:24 | aeh |
| Nickel, total (3050) | M6010B ICP | 38 | | * | mg/Kg | 1 | 5 | 08/25/10 0:24 | aeh |
| Potassium, total (3050) | M6010B ICP | 4110 | | | mg/Kg | 30 | 200 | 08/25/10 0:24 | aeh |
| Selenium, total (3050) | M7742 Modified, AA-Hydride | 2.3 | B | * | mg/Kg | 0.5 | 3 | 09/01/10 12:12 | erf |
| Silver, total (3050) | M6020 ICP-MS | 0.44 | | | mg/Kg | 0.03 | 0.1 | 08/31/10 11:49 | msh |
| Sodium, total (3050) | M6010B ICP | 210 | | * | mg/Kg | 30 | 200 | 08/25/10 0:24 | aeh |
| Thallium, total (3050) | M6020 ICP-MS | 0.33 | | | mg/Kg | 0.05 | 0.3 | 08/31/10 11:49 | msh |
| Vanadium, total (3050) | M6010B ICP | 62.0 | | * | mg/Kg | 0.5 | 3 | 08/25/10 0:24 | aeh |
| Zinc, total (3050) | M6010B ICP | 166 | | * | mg/Kg | 1 | 5 | 08/25/10 0:24 | aeh |

Soil Analysis

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| pH, Corrosivity | M9045D/M9040C | | | | | | | | |
| pH | | 8.0 | | | units | 0.1 | 0.1 | 08/18/10 0:00 | bsu |
| pH measured at | | 24.4 | | | C | 0.1 | 0.1 | 08/18/10 0:00 | bsu |
| Solids, Percent | CLPSOW390, PART F, D-98 | 97.1 | | * | % | 0.1 | 0.5 | 08/24/10 17:00 | zsh |



** Please refer to Qualifier Reports for details.*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Inorganic Analytical Results

**Nu-West Industries, Inc.**
Project ID: 4800042488
Sample ID: CF DRAINFIELD 2

ACZ Sample ID: ***L83799-02***
Date Sampled: *08/12/10 09:25*
Date Received: *08/13/10*
Sample Matrix: *Soil*

Soil Preparation

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Air Dry at 34 Degrees C | USDA No. 1, 1972 | | | | | | | 08/18/10 12:12 | bsu |
| Digestion - Hot Plate | M3050B ICP | | | | | | | 08/23/10 17:00 | meg/brd |
| Digestion - Hot Plate | M3050B ICP-MS | | | | | | | 08/23/10 17:00 | meg/brd |
| Sieve-2000 um (2.0mm) | ASA No.9, 15-4.2.2 | | | | | | | 08/18/10 13:30 | brd |

Wet Chemistry

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) | 0.581 | | * | % | 0.006 | 0.03 | 08/21/10 16:11 | pjb |



** Please refer to Qualifier Reports for details.*

## Report Header Explanations

| | |
|---|---|
| Batch | A distinct set of samples analyzed at a specific time |
| Found | Value of the QC Type of interest |
| Limit | Upper limit for RPD, in %. |
| Lower | Lower Recovery Limit, in % (except for LCSS, mg/Kg) |
| MDL | Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations. |
| PCN/SCN | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| PQL | Practical Quantitation Limit, typically 5 times the MDL. |
| QC | True Value of the Control Sample or the amount added to the Spike |
| Rec | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) |
| RPD | Relative Percent Difference, calculation used for Duplicate QC Types |
| Upper | Upper Recovery Limit, in % (except for LCSS, mg/Kg) |
| Sample | Value of the Sample of interest |

## QC Sample Types

| | | | |
|---|---|---|---|
| AS | Analytical Spike (Post Digestion) | LCSWD | Laboratory Control Sample - Water Duplicate |
| ASD | Analytical Spike (Post Digestion) Duplicate | LFB | Laboratory Fortified Blank |
| CCB | Continuing Calibration Blank | LFM | Laboratory Fortified Matrix |
| CCV | Continuing Calibration Verification standard | LFMD | Laboratory Fortified Matrix Duplicate |
| DUP | Sample Duplicate | LRB | Laboratory Reagent Blank |
| ICB | Initial Calibration Blank | MS | Matrix Spike |
| ICV | Initial Calibration Verification standard | MSD | Matrix Spike Duplicate |
| ICSAB | Inter-element Correction Standard - A plus B solutions | PBS | Prep Blank - Soil |
| LCSS | Laboratory Control Sample - Soil | PBW | Prep Blank - Water |
| LCSSD | Laboratory Control Sample - Soil Duplicate | PQV | Practical Quantitation Verification standard |
| LCSW | Laboratory Control Sample - Water | SDL | Serial Dilution |

## QC Sample Type Explanations

| | |
|---|---|
| Blanks | Verifies that there is no or minimal contamination in the prep method or calibration procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure. |
| Duplicates | Verifies the precision of the instrument and/or method. |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any. |
| Standard | Verifies the validity of the calibration. |

## ACZ Qualifiers (Qual)

| | |
|---|---|
| B | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity. |
| H | Analysis exceeded method hold time. pH is a field test with an immediate hold time. |
| U | The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. |

## Method References

| | |
|---|---|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983. |
| (2) | EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993. |
| (3) | EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994. |
| (5) | EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996. |
| (6) | Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998). |

## Comments

| | |
|---|---|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations. |
| (2) | Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis. |
| (3) | Animal matrices for Inorganic analyses are reported on an "as received" basis. |
| (4) | An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. |

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

**Nu-West Industries, Inc.**
Project ID: 4800042488

ACZ Project ID: ***L83799***

**Aluminum, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 1.989 | mg/L | 99.5 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | 4.2 | mg/Kg | | -9 | 9 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 10700 | | 11625.2 | mg/Kg | | 5080 | 16300 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 10700 | | 11960.9 | mg/Kg | | 5080 | 16300 | 2.8 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 101 | 10800 | 12817.9 | mg/Kg | 1997.9 | 75 | 125 | | | M3 |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 101 | 10800 | 12487.5 | mg/Kg | 1670.8 | 75 | 125 | 2.61 | 20 | M3 |

**Antimony, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288813** | | | | | | | | | | | | | |
| WG288813ICV | ICV | 08/31/10 11:03 | MS100812-2 | .02 | | .0193 | mg/L | 96.5 | 90 | 110 | | | |
| WG288813ICB | ICB | 08/31/10 11:06 | | | | U | mg/L | | -0.0012 | 0.0012 | | | |
| WG288390PBS | PBS | 08/31/10 11:18 | | | | U | mg/Kg | | -0.6 | 0.6 | | | |
| WG288390LCSS1 | LCSS | 08/31/10 11:21 | PCN34835 | 117 | | 86.7 | mg/Kg | | 0 | 281 | | | |
| WG288390LCSSD1 | LCSSD | 08/31/10 11:23 | PCN34835 | 117 | | 86.8 | mg/Kg | | 0 | 281 | 0.1 | 20 | |
| L83799-01MS | MS | 08/31/10 11:37 | MS100802-3 | 5.1 | .3 | 2.21 | mg/Kg | 37.5 | 75 | 125 | | | M2 |
| L83799-01MSD | MSD | 08/31/10 11:46 | MS100802-3 | 5.1 | .3 | 2.41 | mg/Kg | 41.4 | 75 | 125 | 8.66 | 20 | M2 |

**Arsenic, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288813** | | | | | | | | | | | | | |
| WG288813ICV | ICV | 08/31/10 11:03 | MS100812-2 | .05 | | .05009 | mg/L | 100.2 | 90 | 110 | | | |
| WG288813ICB | ICB | 08/31/10 11:06 | | | | U | mg/L | | -0.0015 | 0.0015 | | | |
| WG288390PBS | PBS | 08/31/10 11:18 | | | | U | mg/Kg | | -0.9 | 0.9 | | | |
| WG288390LCSS1 | LCSS | 08/31/10 11:21 | PCN34835 | 138 | | 134.1 | mg/Kg | | 114 | 162 | | | |
| WG288390LCSSD1 | LCSSD | 08/31/10 11:23 | PCN34835 | 138 | | 141 | mg/Kg | | 114 | 162 | 5 | 20 | |
| L83799-01MS | MS | 08/31/10 11:37 | MS100802-3 | 25.5255 | 6.1 | 28.67 | mg/Kg | 88.4 | 75 | 125 | | | |
| L83799-01MSD | MSD | 08/31/10 11:46 | MS100802-3 | 25.5255 | 6.1 | 30 | mg/Kg | 93.6 | 75 | 125 | 4.53 | 20 | |

**Barium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 2.0212 | mg/L | 101.1 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.009 | 0.009 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -0.9 | 0.9 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 269 | | 256.97 | mg/Kg | | 213 | 325 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 269 | | 270.74 | mg/Kg | | 213 | 325 | 5.2 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 1080 | 1048.34 | mg/Kg | -62.7 | 75 | 125 | | | M3 |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 1080 | 1009.6 | mg/Kg | -139.4 | 75 | 125 | 3.76 | 20 | M3 |

**Nu-West Industries, Inc.**
Project ID: 4800042488

ACZ Project ID: ***L83799***

**Beryllium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 2.0326 | mg/L | 101.6 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.006 | 0.006 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -0.6 | 0.6 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 157 | | 161.36 | mg/Kg | | 131 | 184 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 157 | | 163.7 | mg/Kg | | 131 | 184 | 1.4 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | .3 | 49.38 | mg/Kg | 97.2 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | .3 | 49.91 | mg/Kg | 98.2 | 75 | 125 | 1.07 | 20 | |

**Cadmium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 1.9938 | mg/L | 99.7 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 71 | | 81.61 | mg/Kg | | 58.9 | 83 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 71 | | 84.29 | mg/Kg | | 58.9 | 83 | 3.2 | 20 | RL |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | U | 48.39 | mg/Kg | 95.8 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | U | 49.44 | mg/Kg | 97.9 | 75 | 125 | 2.15 | 20 | |

**Calcium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 100 | | 100.22 | mg/L | 100.2 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -60 | 60 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 9660 | | 10856 | mg/Kg | | 8030 | 11300 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 9660 | | 11096 | mg/Kg | | 8030 | 11300 | 2.2 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 6866.07999 | 174000 | 173228 | mg/Kg | -11.2 | 75 | 125 | | | M3 |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 6866.07999 | 174000 | 173845 | mg/Kg | -2.3 | 75 | 125 | 0.36 | 20 | M3 |

**Chromium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 2.001 | mg/L | 100.1 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 105 | | 111 | mg/Kg | | 84.3 | 125 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 105 | | 111.6 | mg/Kg | | 84.3 | 125 | 0.5 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 24 | 70.7 | mg/Kg | 92.5 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 24 | 69.7 | mg/Kg | 90.5 | 75 | 125 | 1.42 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800042488

ACZ Project ID: ***L83799***

**Copper, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 1.998 | mg/L | 99.9 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 110 | | 121.3 | mg/Kg | | 91.2 | 128 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 110 | | 116.5 | mg/Kg | | 91.2 | 128 | 4 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 20 | 68 | mg/Kg | 95 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 20 | 68.3 | mg/Kg | 95.6 | 75 | 125 | 0.44 | 20 | |

**Iron, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 2.002 | mg/L | 100.1 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | 2 | mg/Kg | | -6 | 6 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 19100 | | 18518.6 | mg/Kg | | 9650 | 28500 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 19100 | | 21133.5 | mg/Kg | | 9650 | 28500 | 13.2 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 101 | 31100 | 30045.9 | mg/Kg | -1043.7 | 75 | 125 | | | M3 |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 101 | 31100 | 29346.9 | mg/Kg | -1735.7 | 75 | 125 | 2.35 | 20 | M3 |

**Lead, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288813** | | | | | | | | | | | | | |
| WG288813ICV | ICV | 08/31/10 11:03 | MS100812-2 | .05 | | .0507 | mg/L | 101.4 | 90 | 110 | | | |
| WG288813ICB | ICB | 08/31/10 11:06 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG288390PBS | PBS | 08/31/10 11:18 | | | | U | mg/Kg | | -0.15 | 0.15 | | | |
| WG288390LCSS1 | LCSS | 08/31/10 11:21 | PCN34835 | 144 | | 138.4 | mg/Kg | | 117 | 171 | | | |
| WG288390LCSSD1 | LCSSD | 08/31/10 11:23 | PCN34835 | 144 | | 150.3 | mg/Kg | | 117 | 171 | 8.2 | 20 | |
| L83799-01MS | MS | 08/31/10 11:37 | MS100802-3 | 25.5255 | 11.4 | 37.766 | mg/Kg | 103.3 | 75 | 125 | | | |
| L83799-01MSD | MSD | 08/31/10 11:46 | MS100802-3 | 25.5255 | 11.4 | 35.46 | mg/Kg | 94.3 | 75 | 125 | 6.3 | 20 | |

**Magnesium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 100 | | 102.69 | mg/L | 102.7 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -60 | 60 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 4410 | | 4686 | mg/Kg | | 3320 | 5500 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 4410 | | 5006 | mg/Kg | | 3320 | 5500 | 6.6 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 5049.74952 | 6730 | 12221 | mg/Kg | 108.7 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 5049.74952 | 6730 | 12054 | mg/Kg | 105.4 | 75 | 125 | 1.38 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800042488

ACZ Project ID: ***L83799***

**Manganese, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 1.9575 | mg/L | 97.9 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 539 | | 546.86 | mg/Kg | | 444 | 635 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 539 | | 567.85 | mg/Kg | | 444 | 635 | 3.8 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 17600 | 16239.4 | mg/Kg | -2694.3 | 75 | 125 | | | M3 |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 17600 | 15677.59 | mg/Kg | -3806.8 | 75 | 125 | 3.52 | 20 | M3 |

**Mercury by Direct Combustion AA** M7473

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG286793** | | | | | | | | | | | | | |
| WG286793ICV2 | ICV | 07/27/10 15:51 | HG100727-5 | 100 | | 99.3 | ng/g | 99.3 | 90 | 110 | | | |
| **WG288602** | | | | | | | | | | | | | |
| WG288602ICV1 | ICV | 08/25/10 12:11 | HG100816-2 | 100 | | 103 | ng/g | 103 | 90 | 110 | | | |
| WG288602ICV2 | ICV | 08/25/10 12:31 | HG100816-3 | 100 | | 94.5 | ng/g | 94.5 | 90 | 110 | | | |
| WG288602ICV3 | ICV | 08/25/10 12:41 | HG100816-1 | 1000 | | 1020 | ng/g | 102 | 90 | 110 | | | |
| WG288602ICV4 | ICV | 08/25/10 13:02 | HG100816-1 | 1000 | | 1060 | ng/g | 106 | 90 | 110 | | | |
| WG288602PBS | PBS | 08/25/10 18:17 | | | | U | ng/g | | -1 | 1 | | | |
| WG288602LCSS | LCSS | 08/25/10 18:24 | PCN33712 | 91 | | 87.6 | ng/g | | 80 | 120 | | | |
| WG288602LCSSD | LCSSD | 08/25/10 18:31 | PCN33712 | 91 | | 88.2 | ng/g | | 80 | 120 | 0.7 | 20 | |
| L83799-01DUP | DUP | 08/25/10 18:45 | | | 28 | 30.4 | ng/g | | | | 8.2 | 20 | |
| L83799-01MS | MS | 08/25/10 18:52 | PCN33712 | | | | ng/g | 91.6 | 80 | 120 | | | |

**Molybdenum, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 2.031 | mg/L | 101.6 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 90.4 | | 108.6 | mg/Kg | | 70.9 | 110 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 90.4 | | 112.9 | mg/Kg | | 70.9 | 110 | 3.9 | 20 | RL |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 3 | 51.5 | mg/Kg | 96 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 3 | 51.6 | mg/Kg | 96.2 | 75 | 125 | 0.19 | 20 | |

**Nickel, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2.002 | | 2.002 | mg/L | 100 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 130 | | 153.1 | mg/Kg | | 106 | 154 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 130 | | 157.8 | mg/Kg | | 106 | 154 | 3 | 20 | RL |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 28 | 76.2 | mg/Kg | 95.4 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 28 | 74.8 | mg/Kg | 92.7 | 75 | 125 | 1.85 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800042488

ACZ Project ID: ***L83799***

**Ph** M9045D/M9040C

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288142** | | | | | | | | | | | | | |
| WG288142ICV | ICV | 08/18/10 13:20 | PCN32454 | 4 | | 4 | units | 100 | 90 | 110 | | | |
| L83799-02DUP | DUP | 08/18/10 15:33 | | | 8 | 8.07 | units | | | | 0.9 | 20 | |

**Phosphorus, total** M365.1 - Auto Ascorbic Acid (digest)

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288343** | | | | | | | | | | | | | |
| WG288343ICV | ICV | 08/21/10 15:51 | WI100728-7 | 4 | | 4.24 | mg/L | 106 | 90 | 110 | | | |
| WG288343ICB | ICB | 08/21/10 15:52 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG287852LFB | LFB | 08/21/10 15:54 | WI100629-2 | 2.5 | | 2.48 | % | 99.2 | 85 | 115 | | | |
| WG288194PBS | PBS | 08/21/10 15:57 | | | | U | % | | -0.006 | 0.006 | | | |
| WG288194LFB | LFB | 08/21/10 15:58 | WI100629-2 | 2.5 | | 2.66 | % | 106.4 | 85 | 115 | | | |
| L83770-01MS | MS | 08/21/10 16:00 | WI100629-2 | .0425 | .072 | .1254 | % | 125.6 | 75 | 125 | | | M1 |
| L83770-02DUP | DUP | 08/21/10 16:09 | | | 3.03 | 2.419 | % | | | | 22.4 | 20 | RD |

**Potassium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 20 | | 20.38 | mg/L | 101.9 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.9 | 0.9 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -90 | 90 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 5000 | | 5147 | mg/Kg | | 3580 | 6420 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 5000 | | 5314 | mg/Kg | | 3580 | 6420 | 3.2 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 10093.95515 | 2750 | 13179 | mg/Kg | 103.3 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 10093.95515 | 2750 | 12898 | mg/Kg | 100.5 | 75 | 125 | 2.16 | 20 | |

**Selenium, total (3050)** M7742 Modified, AA-Hydride

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288821** | | | | | | | | | | | | | |
| WG288821ICV | ICV | 09/01/10 9:09 | II100625-5 | .025 | | .0256 | mg/L | 102.4 | 90 | 110 | | | |
| WG288821ICB | ICB | 09/01/10 9:11 | | | | U | mg/L | | -0.003 | 0.003 | | | |
| **WG288822** | | | | | | | | | | | | | |
| WG288390PBS1 | PBS | 09/01/10 12:01 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG288390LCSS1 | LCSS | 09/01/10 12:02 | PCN34835 | 200 | | 183 | mg/Kg | | 160 | 240 | | | |
| WG288390LCSSD1 | LCSSD | 09/01/10 12:03 | PCN34835 | 200 | | 208 | mg/Kg | | 160 | 240 | 12.8 | 20 | |
| L83799-01MS | MS | 09/01/10 12:10 | MS100802-3 | 12.76275 | 1.2 | 12.18 | mg/Kg | 86 | 85 | 115 | | | |
| L83799-01MSD | MSD | 09/01/10 12:11 | MS100802-3 | 12.76275 | 1.2 | 12.4 | mg/Kg | 87.8 | 85 | 115 | 1.79 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800042488

ACZ Project ID: ***L83799***

**Silver, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288813** | | | | | | | | | | | | | |
| WG288813ICV | ICV | 08/31/10 11:03 | MS100812-2 | .02002 | | .0193 | mg/L | 96.4 | 90 | 110 | | | |
| WG288813ICB | ICB | 08/31/10 11:06 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| WG288390PBS | PBS | 08/31/10 11:18 | | | | U | mg/Kg | | -0.09 | 0.09 | | | |
| WG288390LCSS1 | LCSS | 08/31/10 11:21 | PCN34835 | 45.1 | | 47.47 | mg/Kg | | 29.9 | 60.3 | | | |
| WG288390LCSSD1 | LCSSD | 08/31/10 11:23 | PCN34835 | 45.1 | | 47.49 | mg/Kg | | 29.9 | 60.3 | 0 | 20 | |
| L83799-01MS | MS | 08/31/10 11:37 | MS100802-3 | 5.1102 | .32 | 5.056 | mg/Kg | 92.7 | 75 | 125 | | | |
| L83799-01MSD | MSD | 08/31/10 11:46 | MS100802-3 | 5.1102 | .32 | 5.171 | mg/Kg | 94.9 | 75 | 125 | 2.25 | 20 | |

**Sodium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 100 | | 100.92 | mg/L | 100.9 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.9 | 0.9 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -90 | 90 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 653 | | 671 | mg/Kg | | 482 | 825 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 653 | | 671 | mg/Kg | | 482 | 825 | 0 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 10102.6159 | 350 | 10485 | mg/Kg | 100.3 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 10102.6159 | 350 | 10267 | mg/Kg | 98.2 | 75 | 125 | 2.1 | 20 | |

**Solids, Percent** CLPSOW390, PART F, D-98

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288433** | | | | | | | | | | | | | |
| WG288433PBS | PBS | 08/23/10 19:30 | | | | U | % | | 99.9 | 100.1 | | | |
| L83689-01DUP | DUP | 08/23/10 22:48 | | | 86.8 | 84.01 | % | | | | 3.3 | 20 | |

**Thallium, total (3050)** M6020 ICP-MS

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288813** | | | | | | | | | | | | | |
| WG288813ICV | ICV | 08/31/10 11:03 | MS100812-2 | .05 | | .05494 | mg/L | 109.9 | 90 | 110 | | | |
| WG288813ICB | ICB | 08/31/10 11:06 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG288390PBS | PBS | 08/31/10 11:18 | | | | U | mg/Kg | | -0.15 | 0.15 | | | |
| WG288390LCSS1 | LCSS | 08/31/10 11:21 | PCN34835 | 161 | | 169.55 | mg/Kg | | 127 | 195 | | | |
| WG288390LCSSD1 | LCSSD | 08/31/10 11:23 | PCN34835 | 161 | | 180.95 | mg/Kg | | 127 | 195 | 6.5 | 20 | |
| L83799-01MS | MS | 08/31/10 11:37 | MS100802-3 | 25.551 | .29 | 24.781 | mg/Kg | 95.9 | 75 | 125 | | | |
| L83799-01MSD | MSD | 08/31/10 11:46 | MS100802-3 | 25.551 | .29 | 25.475 | mg/Kg | 98.6 | 75 | 125 | 2.76 | 20 | |

**Vanadium, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 2.0984 | mg/L | 104.9 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -1.5 | 1.5 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 67 | | 71.5 | mg/Kg | | 45.6 | 88.4 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 67 | | 75.68 | mg/Kg | | 45.6 | 88.4 | 5.7 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 64.3 | 113.29 | mg/Kg | 97 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 64.3 | 110.26 | mg/Kg | 91 | 75 | 125 | 2.71 | 20 | |

**Nu-West Industries, Inc.**
Project ID: 4800042488

ACZ Project ID: ***L83799***

**Zinc, total (3050)** M6010B ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WG288443** | | | | | | | | | | | | | |
| WG288443ICV | ICV | 08/24/10 23:29 | II100817-3 | 2 | | 1.993 | mg/L | 99.7 | 90 | 110 | | | |
| WG288443ICB | ICB | 08/24/10 23:32 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG288390PBS | PBS | 08/24/10 23:44 | | | | U | mg/Kg | | -3 | 3 | | | |
| WG288390LCSS1 | LCSS | 08/24/10 23:47 | PCN34835 | 223 | | 263.2 | mg/Kg | | 179 | 268 | | | |
| WG288390LCSSD1 | LCSSD | 08/24/10 23:50 | PCN34835 | 223 | | 243.4 | mg/Kg | | 179 | 268 | 7.8 | 20 | |
| L83713-01MS | MS | 08/25/10 0:03 | II100809-2 | 50.5 | 49 | 93 | mg/Kg | 87.1 | 75 | 125 | | | |
| L83713-01MSD | MSD | 08/25/10 0:06 | II100809-2 | 50.5 | 49 | 92.8 | mg/Kg | 86.7 | 75 | 125 | 0.22 | 20 | |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83799***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| **L83799-01** | WG288443 | Aluminum, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | WG288813 | Antimony, total (3050) | M6020 ICP-MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG288443 | Barium, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Beryllium, total (3050) | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Cadmium, total (3050) | M6010B ICP | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Calcium, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Iron, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Manganese, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | | Molybdenum, total (3050) | M6010B ICP | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Nickel, total (3050) | M6010B ICP | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Sodium, total (3050) | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Vanadium, total (3050) | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | | Zinc, total (3050) | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | WG288343 | Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M365.1 - Auto Ascorbic Acid (digest) | RD | For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample. |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83799***

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|---|---|---|---|---|---|
| **L83799-02** | WG288443 | Aluminum, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | WG288813 | Antimony, total (3050) | M6020 ICP-MS | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG288443 | Barium, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Beryllium, total (3050) | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Cadmium, total (3050) | M6010B ICP | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Calcium, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Iron, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | Manganese, total (3050) | M6010B ICP | M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | | Molybdenum, total (3050) | M6010B ICP | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Nickel, total (3050) | M6010B ICP | RL | Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits. |
| | | | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Sodium, total (3050) | M6010B ICP | ZG | The ICP Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL. |
| | | Vanadium, total (3050) | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | | Zinc, total (3050) | M6010B ICP | ZH | Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected. |
| | WG288343 | Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) | M1 | Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | M365.1 - Auto Ascorbic Acid (digest) | RD | For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample. |

**Nu-West Industries, Inc.** ACZ Project ID: ***L83799***

Metals Analysis

**The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.**

| | |
|---|---|
| Selenium, total (3050) | M7742 Modified, AA-Hydride |

Soil Analysis

**The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.**

| | |
|---|---|
| Solids, Percent | CLPSOW390, PART F, D-98 |

Wet Chemistry

**The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.**

| | |
|---|---|
| Phosphorus, total | M365.1 - Auto Ascorbic Acid (digest) |

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Sample Receipt

**Nu-West Industries, Inc.**
4800042488

ACZ Project ID: L83799
Date Received: 08/13/2010 09:58
Received By: gac
Date Printed: 8/16/2010

## Receipt Verification

| | YES | NO | NA |
|---|---|---|---|
| 1) Does this project require special handling procedures such as CLP protocol? | | | X |
| 2) Are the custody seals on the cooler intact? | | | X |
| 3) Are the custody seals on the sample containers intact? | | | X |
| 4) Is there a Chain of Custody or other directive shipping papers present? | X | | |
| 5) Is the Chain of Custody complete? | X | | |
| 6) Is the Chain of Custody in agreement with the samples received? | X | | |
| 7) Is there enough sample for all requested analyses? | X | | |
| 8) Are all samples within holding times for requested analyses? | X | | |
| 9) Were all sample containers received intact? | X | | |
| 10) Are the temperature blanks present? | | | X |
| 11) Are the trip blanks (VOA and/or Cyanide) present? | | | X |
| 12) Are samples requiring no headspace, headspace free? | | | X |
| 13) Do the samples that require a Foreign Soils Permit have one? | | | X |

## Exceptions: If you answered no to any of the above questions, please describe

N/A

## Contact (For any discrepancies, the client must be contacted)

N/A

## Shipping Containers

| Cooler Id | | Temp (°C) | Rad (µR/hr) |
|---|---|---|---|
| Na11410 | | 17.8 | 24 |
| | | | |
| | | | |
| | | | |

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

## Notes

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# Sample Receipt

**Nu-West Industries, Inc.**
4800042488

ACZ Project ID: L83799
Date Received: 08/13/2010 09:58
Received By: gac
Date Printed: 8/16/2010

## Sample Container Preservation

| SAMPLE | CLIENT ID | R < 2 | G < 2 | BK < 2 | Y< 2 | YG< 2 | B< 2 | O < 2 | T >12 | N/A | RAD | ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L83799-01 | CF DRAINFIELD 1 | | | | | | | | | X | | |
| L83799-02 | CF DRAINFIELD 2 | | | | | | | | | X | | |

## Sample Container Preservation Legend

| Abbreviation | Description | Container Type | Preservative/Limits |
|---|---|---|---|
| R | Raw/Nitric | RED | pH must be < 2 |
| B | Filtered/Sulfuric | BLUE | pH must be < 2 |
| BK | Filtered/Nitric | BLACK | pH must be < 2 |
| G | Filtered/Nitric | GREEN | pH must be < 2 |
| O | Raw/Sulfuric | ORANGE | pH must be < 2 |
| P | Raw/NaOH | PURPLE | pH must be > 12 * |
| T | Raw/NaOH Zinc Acetate | TAN | pH must be > 12 |
| Y | Raw/Sulfuric | YELLOW | pH must be < 2 |
| YG | Raw/Sulfuric | YELLOW GLASS | pH must be < 2 |
| N/A | No preservative needed | Not applicable | |
| RAD | Gamma/Beta dose rate | Not applicable | must be < 250 µR/hr |

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac

**ACZ** Laboratories, Inc. L83799

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

# CHAIN of CUSTODY

**Report to:**

Name: Mitch Hart
Company: Nu-West
E-mail: mhart@Agrium.com
Address: 3010 Conda Rd.
Soda Springs, ID 83276
Telephone: 303-883-1184

**Copy of Report to:**

Name: JB Brown
Company: GET
E-mail: Strater4@comcast.net
Telephone: 801-463-0902

**Invoice to:**

Name: Accounts Payable
Company: Agrium
E-mail:
Address: 3010 Conda Rd.
Soda Springs ID 83276
Telephone: 208-547-4381

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring? Yes [ ] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: JB Brown Sampler's site Information State ID Zip code MT Time Zone

**PROJECT INFORMATION**

Quote #: Georgetown
Project/PO #: 480004288
Reporting state for compliance testing: NO
Are any samples NRC licensable material? Yes / No

ANALYSIS REQUESTED (attach list or use quote number)

| SAMPLE IDENTIFICATION | DATE:TIME | Matrix | # of Containers | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CF Drainfield 1 | 8-12-10 9:35 | Soil | 1 | | See Table 2-2 | | | | | |
| CF Drainfield 2 | 8-12-10 9:25 | Soil | 1 | | See Table 2-2 | | | | | |
| | | | | | | (no organics) | | | | |

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

**REMARKS**

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

| RELINQUISHED BY: | DATE:TIME | RECEIVED BY: | DATE:TIME |
|---|---|---|---|
| [signature] | 8-12-10 11:30 | [signature] | 8-13-10 1000 |

FRMAD050.02.17.10 White - Return with sample. Yellow - Retain for your records.

DRAFT

**TABLE 2-2**
**GEORGETOWN CANYON**
**VADOSE ZONE SOIL**
**PARAMETERS AND ANALYTICAL METHODS**

| Analyte | Analytical Method | Holding Time | Method Detection Limit |
|---|---|---|---|
| | | | |
| pH | SW-846 9045 | Immediate | 0.1 (units) |
| Phosphorous (Total) | EPA M365.4 | 28 Days | 0.01 Percent |
| | | | |
| **Metals List** | | | |
| Metals Digestion | EPA M3050B | | |
| Aluminum | EPA Method 200.7 ICP | 6 Months | 3 mg/kg |
| Arsenic | EPA Method 200.8 ICP/MS | 6 Months | 4 mg/kg |
| Antimony | EPA Method 200.8 ICP/MS | 6 Months | 0.02 mg/kg |
| Barium | EPA Method 200.7 ICP | 6 Months | 0.3 mg/kg |
| Beryllium | EPA Method 200.7 ICP | 6 Months | 0.2 mg/kg |
| Cadmium | EPA Method 200.7 ICP | 6 Months | 0.3 mg/kg |
| Calcium | EPA Method 200.7 ICP | 6 Months | 20 mg/kg |
| Chromium | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Copper | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Iron | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Magnesium | EPA Method 200.7 ICP | 6 Months | 20 mg/kg |
| Manganese | EPA Method 200.7 ICP | 6 Months | 0.5 mg/kg |
| Molybdenum | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Mercury | EPA Method 200.8 ICP/MS | 28 days | 0.005 mg/kg |
| Nickel | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| Potassium | EPA Method 200.7 ICP | 6 Months | 30 mg/kg |
| Lead | EPA Method 200.8 ICP/MS | 6 Months | 4 mg/kg |
| Selenium | SM 3500, Se Hydride AA | 6 Months | 0.1mg/kg |
| Sodium | EPA Method 200.7 ICP | 6 Months | 30 mg/kg |
| Silver | EPA Method 200.8 ICP/MS | 6 Months | 0.5 mg/kg |
| Thallium | EPA Method 200.8 ICP/MS | 6 Months | 0.2 mg/kg |
| Vanadium | EPA Method 200.7 ICP | 6 Months | 0.5 mg/kg |
| Zinc | EPA Method 200.7 ICP | 6 Months | 1 mg/kg |
| **Organic Parameters** | | | |
| TPH DRX Method ~~[illegible]~~ -1 | ~~TNRCC M1005, GC/FID~~ | ~~7 Days~~ | ~~12.0 mg/kg~~ |
| PCB -2 | ~~EPA M608/8082 GC/ECD~~ | ~~7 Days~~ | ~~0.02 mg/kg~~ |
| | | | |
| | | | |

~~-1 Samples for TPH obtained from borings GTB-07 and GTB-08 beneath reclamation cover soil interface and below elevation of removed USTs.~~

~~-2 – Samples for PCB obtained from 3 and 6-foot depths on GTB-6. A surface soil sample obtained for PCB analysis in conjunction with surface soil sampling.~~

MDL, reported by ACZ Labs. Reporting limits vary with dilution.

# APPENDIX D

## PROGRESS CHARTS AND REPORTS TO IDEQ
## SUPERVISORS DAILY REPORTS

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:11 PM
**To:** strater4@comcast.net
**Subject:** FW: CF GTC Phase II Remedial Construction Progress Schedule
**Attachments:** 061810 CF RAP Phase II progress schedule.pdf

---

**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Friday, June 18, 2010 1:57 PM
**To:** mark.jeffers@deq.idaho.gov
**Cc:** Douglas.Tanner@deq.idaho.gov; mhart@agrium.com; JBWillia@agrium.com; wbauman@craworld.com; White, Dan; pkos@norwestcorp.com; kritter@norwestcorp.com; cemmons@norwestcorp.com; Downing, Matt; (ddekker@craworld.com)
**Subject:** CF GTC Phase II Remedial Construction Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II. Current estimate is about 5 percent completed.

**Activities**

Activity highlights over the past week include:

- Site mobilization of equipment and office trailer;
- Site preconstruction kick-off meeting;
- Air H&S monitoring;
- Daily H&S briefings and work activity/progress meetings;
- Establishment of BMPs;
- Site road improvements;
- Clearing and grubbing of spoils areas;
- Site surveys of pit locations, centerlines, USFS easement and road re-alignments;
- Test Pitting across the channel alignment footprint;
- Establishment of haulage roads and traffic patterns;
- SWPPP inspections and training;
- Sample collection and geotechnical testing of filter gravel
- Fence removal and posting of no trespassing signs;
- Initial dewatering work on the sed pond;
- Spoils calculations

**Problems and Resolutions**

Problems that occurred during the week and resolution of these problems included:

- None

**Next Week**

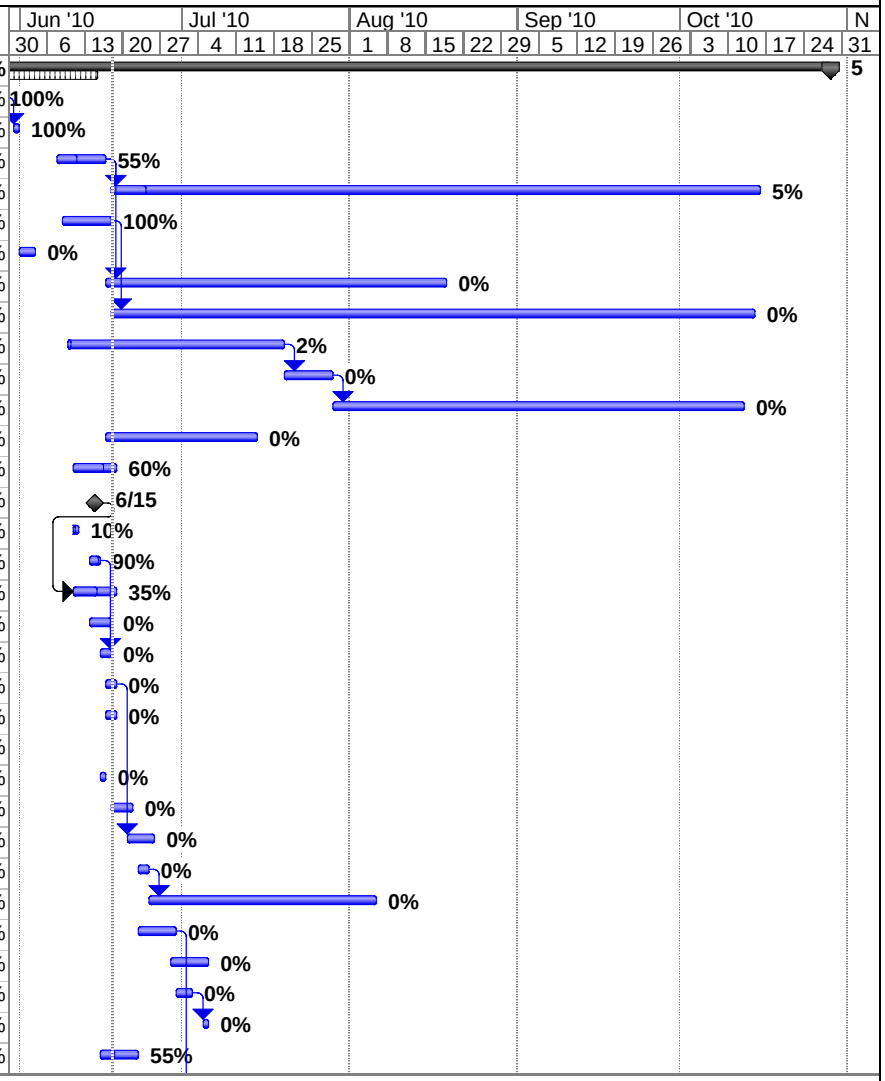
Next week's activities include:

- Mobilization of additional workers, equipment;
- Grubbing;
- Cleaning out sed pond, rebuilding road and dike;
- Channel excavation;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring;
- Removal of fence from site;
- Generation of bulk select fill and rip rap from Dud Hollow.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | Act. Start | Act. Finish | % Comp. |
|---|---|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **Wed 7/29/09** | **NA** | **5%** |
| 2 | Notify IDWR | Thu 5/27/10 | Thu 5/27/10 | 100% |
| 3 | Notify USACE | Mon 5/31/10 | Mon 5/31/10 | 100% |
| 4 | Site Mobilization | Tue 6/8/10 | NA | 55% |
| 5 | Continued SWPPP Inspections/Documentation | Fri 6/18/10 | NA | 5% |
| 6 | Install Pump in Well/Storage Tank Setup | Wed 6/9/10 | Thu 6/17/10 | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | NA | NA | 0% |
| 8 | Road Grading for Material Import | NA | NA | 0% |
| 9 | Construction Dust Suppression | NA | NA | 0% |
| 10 | CQA Oversight | Thu 6/10/10 | NA | 2% |
| 11 | CQA Oversight | NA | NA | 0% |
| 12 | CQA Oversight | NA | NA | 0% |
| 13 | Quarry and Grade Rip Rap and Borrow | NA | NA | 0% |
| 14 | Grade Areas North and South of Site | Fri 6/11/10 | NA | 60% |
| 15 | Construction Kickoff Meeting | Tue 6/15/10 | Tue 6/15/10 | 100% |
| 16 | Surveying | Fri 6/11/10 | NA | 10% |
| 17 | Test Pits | Mon 6/14/10 | NA | 90% |
| 18 | Grading & Preparation for Fill | Fri 6/11/10 | NA | 35% |
| 19 | SESC/BMP's | NA | NA | 0% |
| 20 | USFS Road Cut | NA | NA | 0% |
| 21 | Import Road Base | NA | NA | 0% |
| 22 | USFS Road Base & Grading | NA | NA | 0% |
| 23 | Compaction Testing | NA | NA | 0% |
| 24 | Surveying | NA | NA | 0% |
| 25 | Clean out Sediment Pond | Fri 6/18/10 | NA | 0% |
| 26 | Sedimentation Basin Construction | NA | NA | 0% |
| 27 | Compaction Testing | NA | NA | 0% |
| 28 | Ore Haul to Soda Springs | NA | NA | 0% |
| 29 | Bulk Select Fill Production | NA | NA | 0% |
| 30 | Compacted Fill Placement at Sed Pond | NA | NA | 0% |
| 31 | Compaction Testing | NA | NA | 0% |
| 32 | Surveying | NA | NA | 0% |
| 33 | Fence Removal | Wed 6/16/10 | NA | 55% |

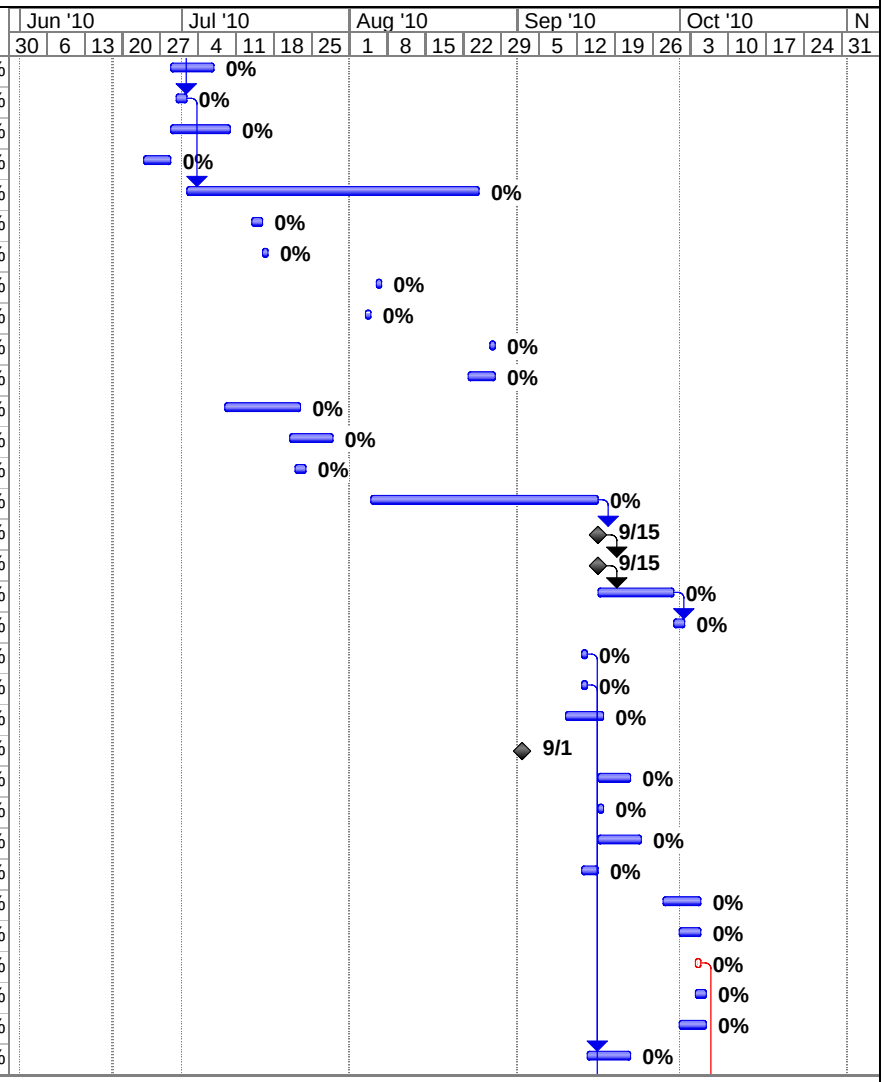



Project: Phase II CMP Bypass Channe
Date: Fri 6/18/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | Act. Start | Act. Finish | % Comp. |
|---|---|---|---|---|
| 34 | Bldg Foundation Removal & Misc Debris | NA | NA | 0% |
| 35 | Construct Dewatering Sediment Pond | NA | NA | 0% |
| 36 | Grubbing/Prestrip Slag on Channel Excavation Areas | NA | NA | 0% |
| 37 | Improve On-site Roads | NA | NA | 0% |
| 38 | Channel Excavation & Fill Placement | NA | NA | 0% |
| 39 | Obtain Geotechnical Samples | NA | NA | 0% |
| 40 | Surveying | NA | NA | 0% |
| 41 | Surveying | NA | NA | 0% |
| 42 | Obtain Soil Samples for Nutrient Amendment | NA | NA | 0% |
| 43 | Surveying | NA | NA | 0% |
| 44 | Cover C&D landfill | NA | NA | 0% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | NA | NA | 0% |
| 46 | Import Filter Stone & Stockpile | NA | NA | 0% |
| 47 | Obtain/Testing Geotechnical Samples | NA | NA | 0% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | NA | NA | 0% |
| 49 | Notify IDWR Prior to Channel Diversion from CMP | NA | NA | 0% |
| 50 | IDWR Inspection | NA | NA | 0% |
| 51 | Topsoil (Channel) | NA | NA | 0% |
| 52 | Surveying | NA | NA | 0% |
| 53 | Tank Spring Channel Excavation | NA | NA | 0% |
| 54 | Abandon Tank Spring Drop Inlet | NA | NA | 0% |
| 55 | Bypass System Setup and Cofferdam | NA | NA | 0% |
| 56 | Survey New ROW for Easement Fence Alignment | NA | NA | 0% |
| 57 | Install Fence and Gates | NA | NA | 0% |
| 58 | CMP Abandonment | NA | NA | 0% |
| 59 | CMP Crossings | NA | NA | 0% |
| 60 | Remove Power Poles | NA | NA | 0% |
| 61 | Bypass System Removal | NA | NA | 0% |
| 62 | Tank Spring Filter Stone & Rip Rap | NA | NA | 0% |
| 63 | Syncline Spring Filter Stone & Rip Rap | NA | NA | 0% |
| 64 | Culverts | NA | NA | 0% |
| 65 | Willow, Alder, Dogwood, & Snowberry Planting | NA | NA | 0% |
| 66 | Hydro seeding (Spoil Areas) | NA | NA | 0% |

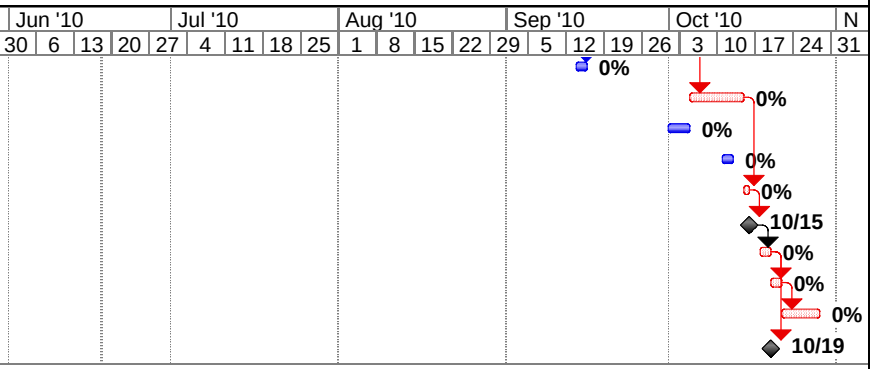



Project: Phase II CMP Bypass Channe
Date: Fri 6/18/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | Act. Start | Act. Finish | % Comp. |
|---|---|---|---|---|
| 67 | Reclaim Borrow Areas | NA | NA | 0% |
| 68 | Hydro seeding & ECB (Channel) | NA | NA | 0% |
| 69 | Surveying | NA | NA | 0% |
| 70 | Controlled Burn with County Permit | NA | NA | 0% |
| 71 | Stormwater Inspection | NA | NA | 0% |
| 72 | Project Complete | NA | NA | 0% |
| 73 | Demobilization | NA | NA | 0% |
| 74 | Completion Certificate to USACE | NA | NA | 0% |
| 75 | Post Construction Photos to USACE | NA | NA | 0% |
| 76 | Notice of SWPPP Termination to EPA | NA | NA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 6/18/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:13 PM
**To:** strater4@comcast.net
**Subject:** FW: CF GTC Phase II Remedial Construction Progress Schedule
**Attachments:** 070210 CF RAP Phase II progress schedule.pdf

---

**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Friday, July 02, 2010 4:26 PM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; pkos@norwestcorp.com; kritter@norwestcorp.com; cemmons@norwestcorp.com; White, Dan; (ddekker@craworld.com); wbauman@craworld.com
**Subject:** CF GTC Phase II Remedial Construction Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II. Current estimate of the project completion is about 12 percent completed as of July 1, 2010.

**Activities**

Activity highlights over the past 2 weeks include:

- Additional mobilization of equipment and workers;
- Site surveys;
- Compaction Testing;
- Air H&S monitoring;
- Air monitoring of slurry pit cap;
- Site dust mitigation;
- Daily H&S briefings and work activity/progress meetings;
- Establishment of additional BMPs;
- Completion of Test pits and evaluation of findings with design;
- Completion of cleaning out of ore from sediment pond;
- Near completion of fence removal;
- Placement of barricades and site signage;
- SWPPP inspections;
- Three lifts and keyway completion on sediment pond berm;
- Initiation of channel excavation and spoils placement;
- Removal of up to 30 percent of foundations;
- Production of 3 inch minus fill soils.

**Problems and Resolutions**

Problems that occurred during the past 2 weeks and resolution of these problems included:

- Discovery of septic tank with elemental phosphorus; Nu-West made notification to IDEQ and is reviewing options for remedy.

- Large concrete footings requiring larger crushing and shear equipment; CRA has lined up suitable equipment for concrete demolition and will mobilize in early July.
- Water in TSP storage building foundation; Obtained 4-inch pump and piping to evacuate to sed pond following completion of sediment pond dike.
- Equipment breakdowns including loss of hoe ram services for several days; Parts replacement arrived and repaired on 6-30-10.

**Next 2 Weeks Activities**

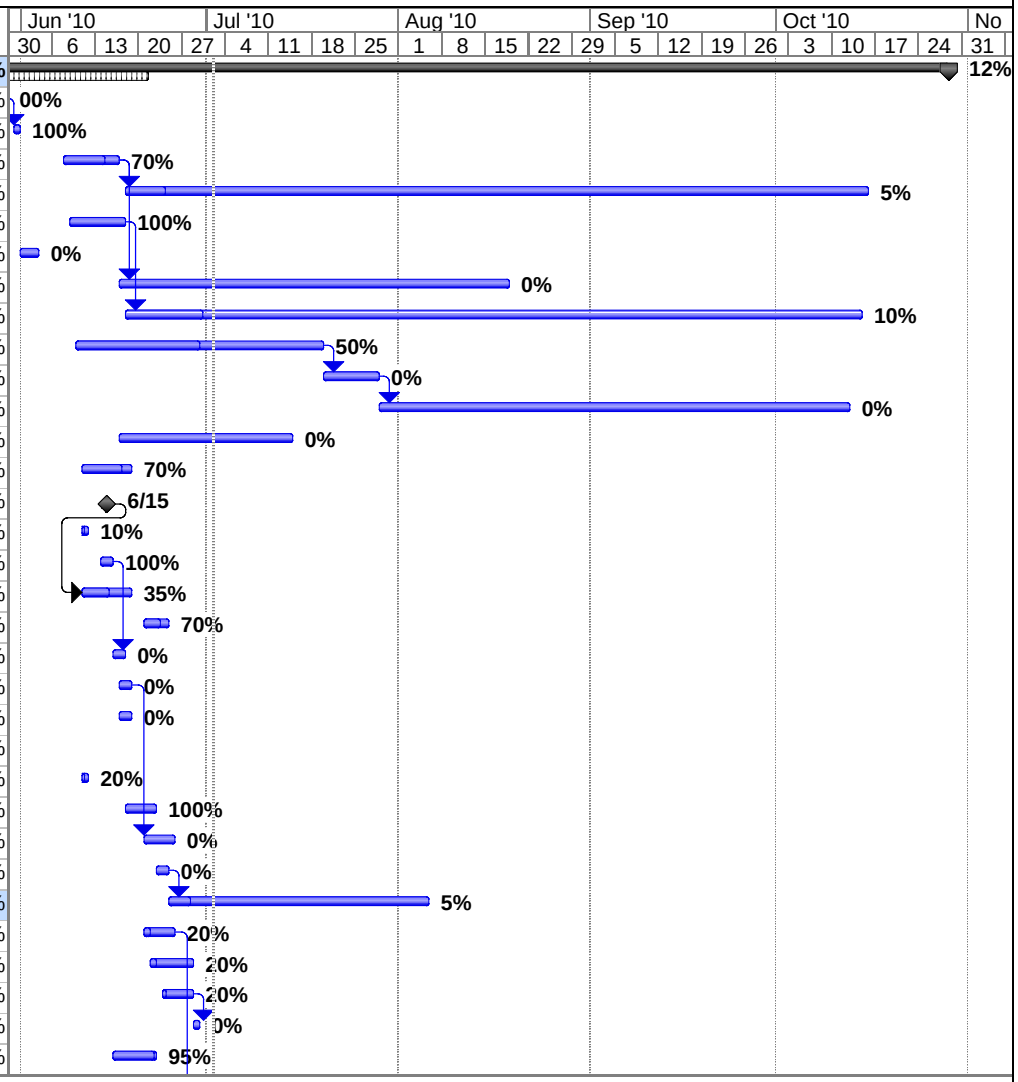
Activities for the next two weeks will include:

- Rebuilding road and sediment pond dike and culvert;
- Compaction testing;
- Surveying;
- Resolution of septic phos placement;
- Channel excavation;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring;
- Ore removal from site;
- Road base material import;
- Generation of bulk select fill and rip rap from Dud Hollow.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **12%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 70% |
| 5 | Continued SWPPP Inspections/Documentation | 5% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 0% |
| 8 | Road Grading for Material Import | 0% |
| 9 | Construction Dust Suppression | 10% |
| 10 | CQA Oversight | 50% |
| 11 | CQA Oversight | 0% |
| 12 | CQA Oversight | 0% |
| 13 | Quarry and Grade Rip Rap and Borrow | 0% |
| 14 | Grade Areas North and South of Site | 70% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 10% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 35% |
| 19 | SESC/BMP's | 70% |
| 20 | USFS Road Cut | 0% |
| 21 | Import Road Base | 0% |
| 22 | USFS Road Base & Grading | 0% |
| 23 | Compaction Testing | 0% |
| 24 | Surveying | 20% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Sedimentation Basin Construction | 0% |
| 27 | Compaction Testing | 0% |
| 28 | Ore Haul to Soda Springs | 5% |
| 29 | Bulk Select Fill Production | 20% |
| 30 | Compacted Fill Placement at Sed Pond | 20% |
| 31 | Compaction Testing | 20% |
| 32 | Surveying | 0% |
| 33 | Fence Removal | 95% |

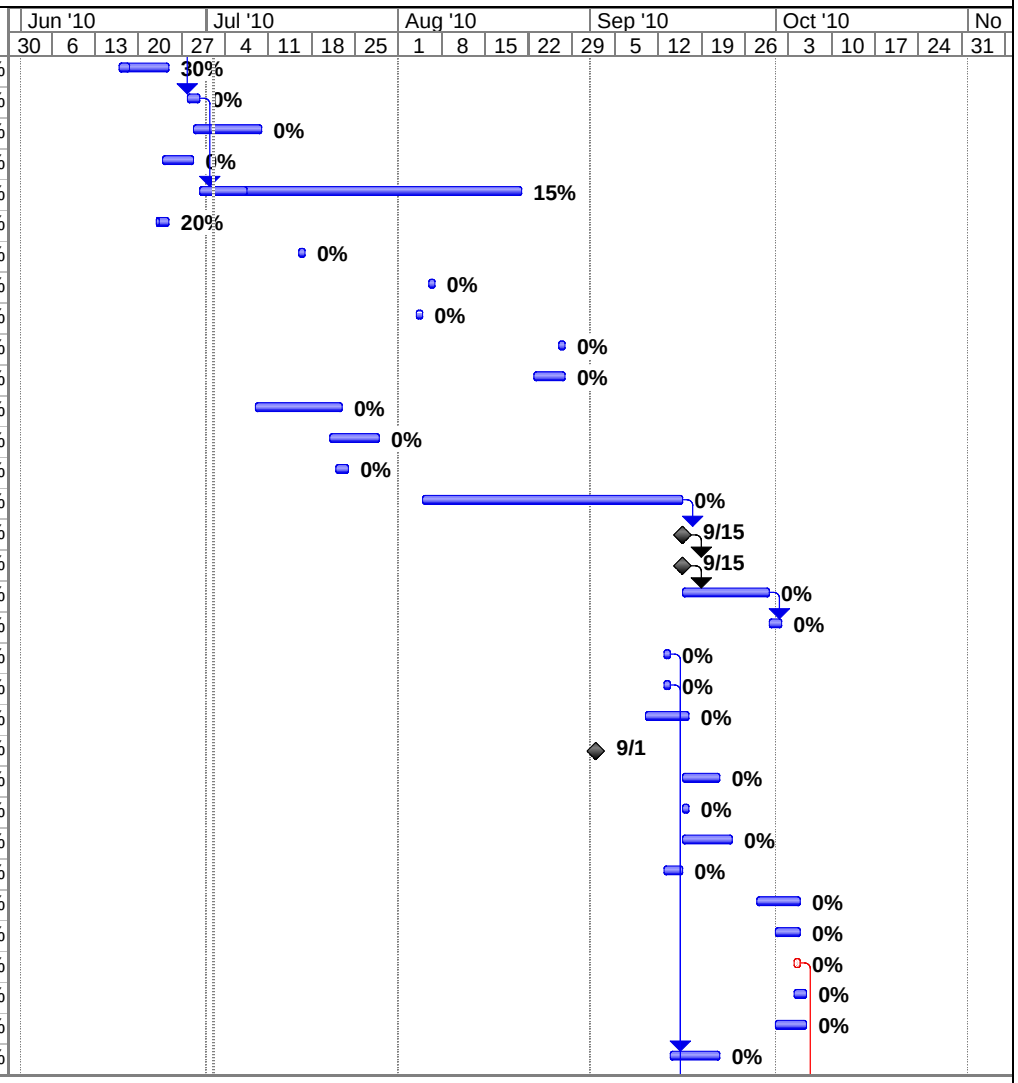



Project: Phase II CMP Bypass Channe
Date: Fri 7/2/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Bldg Foundation Removal & Misc Debris | 30% |
| 35 | Construct Dewatering Sediment Pond | 0% |
| 36 | Grubbing/Prestrip Slag on Channel Excavation Areas | 0% |
| 37 | Improve On-site Roads | 0% |
| 38 | Channel Excavation & Fill Placement | 15% |
| 39 | Obtain Geotechnical Samples | 20% |
| 40 | Surveying | 0% |
| 41 | Surveying | 0% |
| 42 | Obtain Soil Samples for Nutrient Amendment | 0% |
| 43 | Surveying | 0% |
| 44 | Cover C&D landfill | 0% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | 0% |
| 46 | Import Filter Stone & Stockpile | 0% |
| 47 | Obtain/Testing Geotechnical Samples | 0% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 0% |
| 49 | Notify IDWR Prior to Channel Diversion from CMP | 0% |
| 50 | IDWR Inspection | 0% |
| 51 | Topsoil (Channel) | 0% |
| 52 | Surveying | 0% |
| 53 | Tank Spring Channel Excavation | 0% |
| 54 | Abandon Tank Spring Drop Inlet | 0% |
| 55 | Bypass System Setup and Cofferdam | 0% |
| 56 | Survey New ROW for Easement Fence Alignment | 0% |
| 57 | Install Fence and Gates | 0% |
| 58 | CMP Abandonment | 0% |
| 59 | CMP Crossings | 0% |
| 60 | Remove Power Poles | 0% |
| 61 | Bypass System Removal | 0% |
| 62 | Tank Spring Filter Stone & Rip Rap | 0% |
| 63 | Syncline Spring Filter Stone & Rip Rap | 0% |
| 64 | Culverts | 0% |
| 65 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |
| 66 | Hydro seeding (Spoil Areas) | 0% |

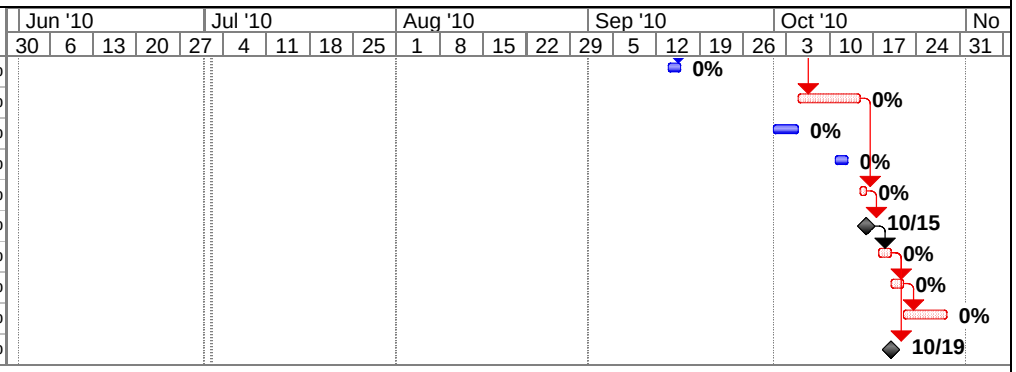



Project: Phase II CMP Bypass Channe
Date: Fri 7/2/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Reclaim Borrow Areas | 0% |
| 68 | Hydro seeding & ECB (Channel) | 0% |
| 69 | Surveying | 0% |
| 70 | Controlled Burn with County Permit | 0% |
| 71 | Stormwater Inspection | 0% |
| 72 | Project Complete | 0% |
| 73 | Demobilization | 0% |
| 74 | Completion Certificate to USACE | 0% |
| 75 | Post Construction Photos to USACE | 0% |
| 76 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 7/2/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:13 PM
**To:** strater4@comcast.net
**Subject:** FW: CF GTC Phase II Remedial Construction Progress Schedule
**Attachments:** 071610 CF RAP Phase II progress schedule.pdf

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**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Friday, July 16, 2010 1:38 PM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; kritter@norwestcorp.com; pkos@norwestcorp.com; cemmons@norwestcorp.com; White, Dan; (ddekker@craworld.com); wbauman@craworld.com; Downing, Matt
**Subject:** CF GTC Phase II Remedial Construction Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II. Current estimate of the project completion is about 26 percent completed as of July 16, 2010.

**Activities**

Activity highlights over the past 2 weeks include:

- Additional mobilization of equipment and workers;
- Site surveys;
- Compaction Testing;
- Air H&S monitoring;
- Air monitoring of slurry pit cap;
- Site dust mitigation;
- Daily H&S briefings and work activity/progress meetings;
- Establishment of additional BMPs;
- Completion of fence removal;
- Placement of additional barricades and site signage;
- SWPPP inspections;
- Four additional lifts on sediment pond berm;
- Channel excavation and spoils placement;
- Removal of up to 75 percent of foundations;
- Production of 3 inch minus fill soils.

**Problems and Resolutions**

Problems that occurred during the past 2 weeks and resolution of these problems included:

- Discovery of septic tank with elemental phosphorus; Nu-West made notification to IDEQ and is providing final plan on July 16 for remedy.
- Large concrete footings requiring larger crushing and shear equipment; CRA has obtained suitable equipment for concrete demolition that has increased production of the demolition of the foundations.

- Water in TSP building foundation; Using 4-inch pump and piping to evacuate to sed pond.
- Equipment breakdowns including loss of hoe ram services for several days due to seal break; loss of water truck for one day, loss of concrete shear due to broken jaw pin. The jaw pin will be replaced as soon as possible to get equipment back to work;
- Identified a 5-foot underground conveyor to the TSP building; this tunnel will be abandoned using native backfill and bentonite.

**Next 2 Weeks Activities**

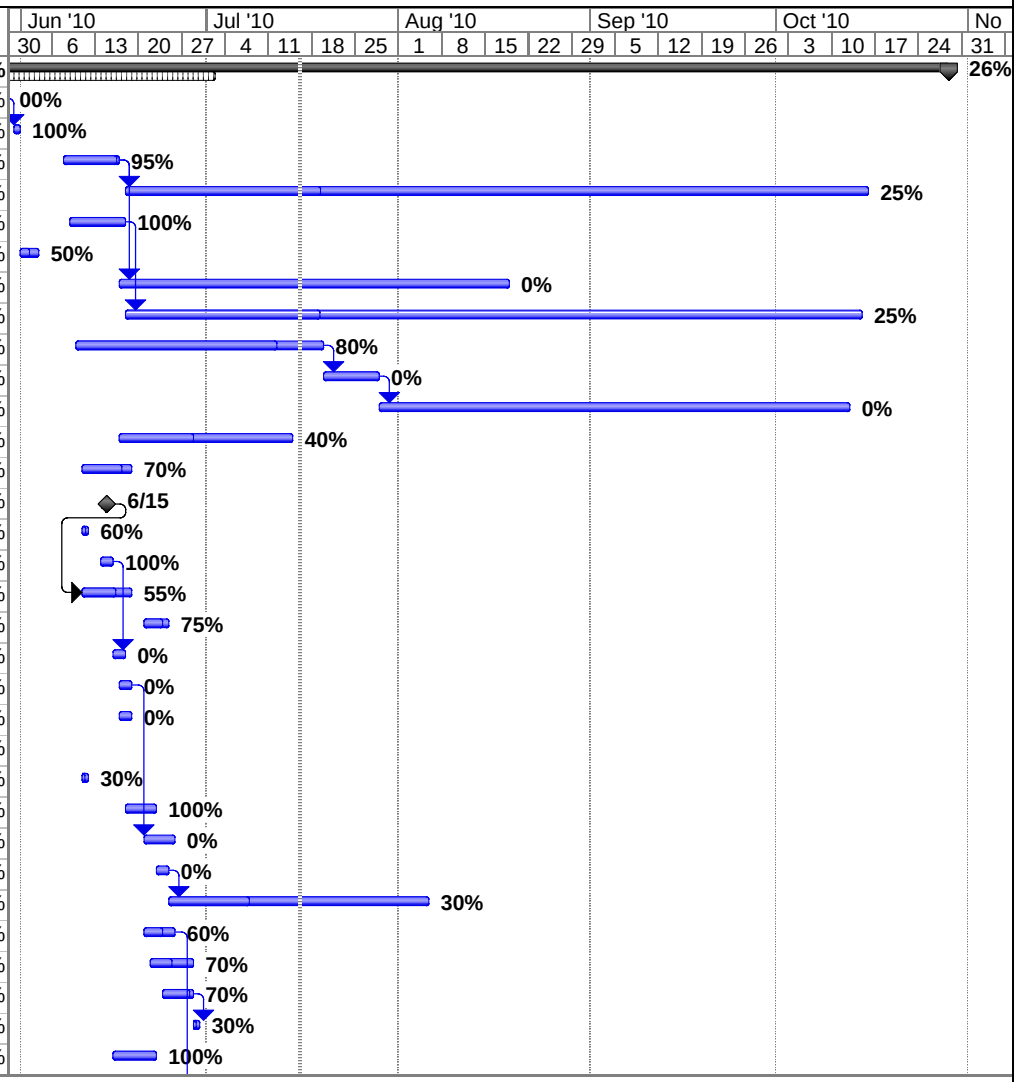
Activities for the next two weeks will include:

- IDEQ inspection on July 20th;
- Rebuilding road and sediment pond dike and culvert;
- Concrete foundation demolition;
- Concrete demolition and rubble landfilling;
- Compaction testing;
- Surveying;
- Resolution of septic phos placement and moving tank and contents in accordance with approved plan;
- Channel excavation;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring and monitoring of slurry pit cap;
- Ore removal from site;
- Road base material import;
- Generation of bulk select fill and rip rap from Dud Hollow.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **26%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 95% |
| 5 | Continued SWPPP Inspections/Documentation | 25% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 50% |
| 8 | Road Grading for Material Import | 0% |
| 9 | Construction Dust Suppression | 25% |
| 10 | CQA Oversight | 80% |
| 11 | CQA Oversight | 0% |
| 12 | CQA Oversight | 0% |
| 13 | Quarry and Grade Rip Rap and Borrow | 40% |
| 14 | Grade Areas North and South of Site | 70% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 60% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 55% |
| 19 | SESC/BMP's | 75% |
| 20 | USFS Road Cut | 0% |
| 21 | Import Road Base | 0% |
| 22 | USFS Road Base & Grading | 0% |
| 23 | Compaction Testing | 0% |
| 24 | Surveying | 30% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Sedimentation Basin Construction | 0% |
| 27 | Compaction Testing | 0% |
| 28 | Ore Haul to Soda Springs | 30% |
| 29 | Bulk Select Fill Production | 60% |
| 30 | Compacted Fill Placement at Sed Pond | 70% |
| 31 | Compaction Testing | 70% |
| 32 | Surveying | 30% |
| 33 | Fence Removal | 100% |

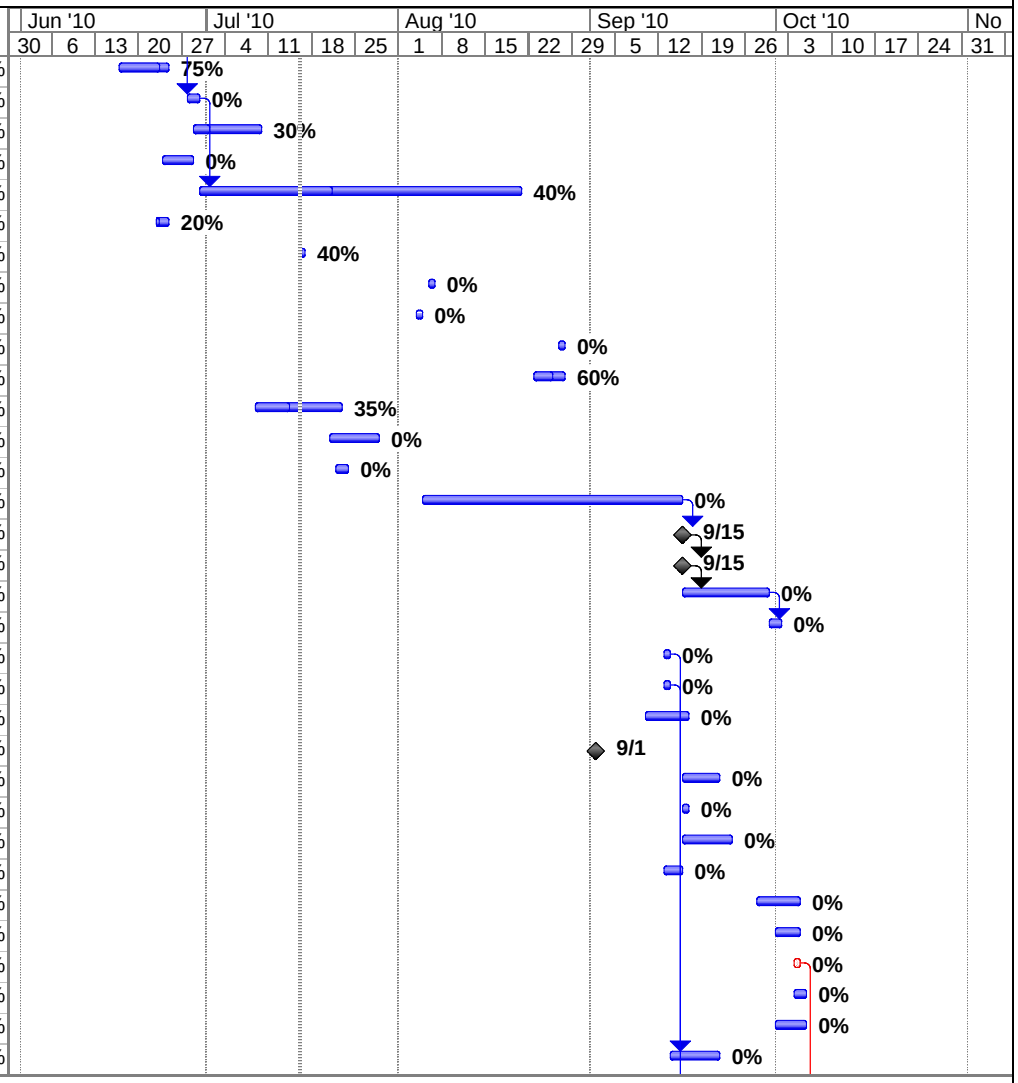



Project: Phase II CMP Bypass Channe
Date: Fri 7/16/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Bldg Foundation Removal & Misc Debris | 75% |
| 35 | Construct Dewatering Sediment Pond | 0% |
| 36 | Grubbing/Prestrip Slag on Channel Excavation Areas | 30% |
| 37 | Improve On-site Roads | 0% |
| 38 | Channel Excavation & Fill Placement | 40% |
| 39 | Obtain Geotechnical Samples | 20% |
| 40 | Surveying | 40% |
| 41 | Surveying | 0% |
| 42 | Obtain Soil Samples for Nutrient Amendment | 0% |
| 43 | Surveying | 0% |
| 44 | Cover C&D landfill | 60% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | 35% |
| 46 | Import Filter Stone & Stockpile | 0% |
| 47 | Obtain/Testing Geotechnical Samples | 0% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 0% |
| 49 | Notify IDWR Prior to Channel Diversion from CMP | 0% |
| 50 | IDWR Inspection | 0% |
| 51 | Topsoil (Channel) | 0% |
| 52 | Surveying | 0% |
| 53 | Tank Spring Channel Excavation | 0% |
| 54 | Abandon Tank Spring Drop Inlet | 0% |
| 55 | Bypass System Setup and Cofferdam | 0% |
| 56 | Survey New ROW for Easement Fence Alignment | 0% |
| 57 | Install Fence and Gates | 0% |
| 58 | CMP Abandonment | 0% |
| 59 | CMP Crossings | 0% |
| 60 | Remove Power Poles | 0% |
| 61 | Bypass System Removal | 0% |
| 62 | Tank Spring Filter Stone & Rip Rap | 0% |
| 63 | Syncline Spring Filter Stone & Rip Rap | 0% |
| 64 | Culverts | 0% |
| 65 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |
| 66 | Hydro seeding (Spoil Areas) | 0% |

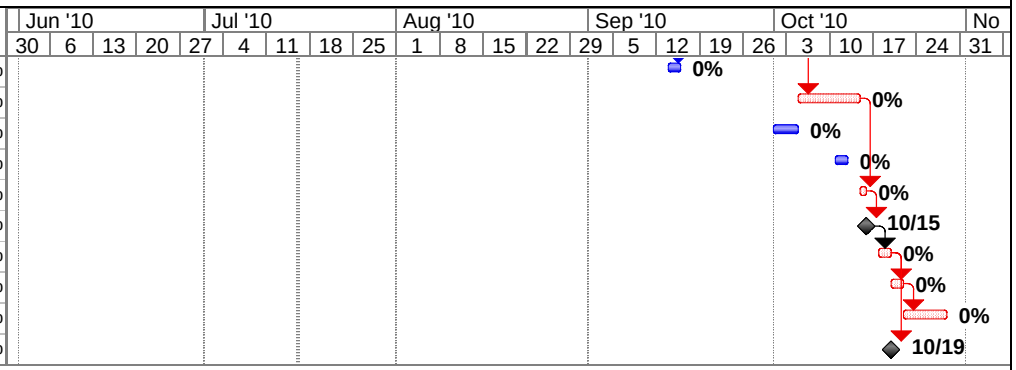



Project: Phase II CMP Bypass Channe
Date: Fri 7/16/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Reclaim Borrow Areas | 0% |
| 68 | Hydro seeding & ECB (Channel) | 0% |
| 69 | Surveying | 0% |
| 70 | Controlled Burn with County Permit | 0% |
| 71 | Stormwater Inspection | 0% |
| 72 | Project Complete | 0% |
| 73 | Demobilization | 0% |
| 74 | Completion Certificate to USACE | 0% |
| 75 | Post Construction Photos to USACE | 0% |
| 76 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 7/16/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:14 PM
**To:** strater4@comcast.net
**Subject:** FW: CF GTC Phase II Remedial Construction Progress Schedule
**Attachments:** 080310 CF RAP Phase II progress schedule.pdf; DSC02837.jpg; DSC02844.jpg; DSC02866.jpg; DSC02885.jpg; DSC02901.jpg

---

**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Wednesday, August 04, 2010 11:39 AM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; White, Dan; wbauman@craworld.com; Downing, Matt; (ddekker@craworld.com); pkos@norwestcorp.com; kritter@norwestcorp.com; cemmons@norwestcorp.com
**Subject:** CF GTC Phase II Remedial Construction Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II and pictures obtained within the past 2 weeks of work progress. Current estimate of the project completion is about 38 percent completed as of August 3, 2010.

**Activities**

Activity highlights over the past 2 weeks include:

- Additional mobilization of equipment and workers;
- Site surveys;
- Compaction Testing;
- Air H&S monitoring;
- Air monitoring of slurry pit cap;
- Site dust mitigation;
- Ore haulage from the site to Soda Springs;
- Delivery of “sprinkle” gravel to fill voids in the channel;
- Daily H&S briefings and work activity/progress meetings;
- Establishment of additional BMPs;
- Placement of additional barricades and site signage;
- SWPPP inspections;
- Completion of lifts and testing of lifts on sediment pond berm;
- Channel excavation and spoils placement;
- Near completion of the removal of building foundations;
- Near completion of covering of the concrete and rubble landfill;
- Completion of the production of 3 inch minus fill soils and demobilization of the power screen;
- Completion of the road cut near the slurry pit cover and grading of the new road alignment;
- Commencement of placement of road base on the sediment pond dike;
- Development of a work plan to oxidize phos contained in the septic tank;
- Partial oxidation of the septic tank contents and the 4 loads that were initially removed from the tank;
- IDEQ inspection of the work progress.

**Problems and Resolutions**

Problems that occurred during the past 2 weeks and resolution of these problems included:

- The septic tank containing elemental phosphorus was spread out on July 30th in accordance with the plan that was approved by IDEQ. The material has not completely reacted within the 1 hour allotted period due to the wetness of the material and Nu-West has provided IDEQ with a plan to oxidize the remaining material.
- The 60" CMP has a longer run than anticipated within the channel footprint between 22+00 and 26+00. This has not allowed the crew to completely excavate the channel in these areas and the bypass system will need to be set in place sooner than expected before the CMP can be removed and the final grade cuts can be completed.
- The 5-foot underground conveyor to the TSP building has not yet been remedied but this tunnel will be abandoned using native backfill and bentonite following the receipt of the bentonite materials.
- A soft spot was identified in the FS road cut. The material has been overexcavated across the road and backfilled with coarse rock which will allow this wet area to drain to the CMP bypass channel.
- Approximately 6 loads of soils materials were identified to have a faint hydrocarbon odor. This material originates within the shallow soils (above 6 feet) at about 20+60 on the alignment. These soils have been segregated and we will obtain samples from this material for analysis to compare with regulatory standards.
- The site production well was discovered on the FS road. This well was previously backfilled with silica rock to the surface. This well will be cut off at 2 feet below grade and abandoned with a cement plug.

**Next 2 Weeks Activities**

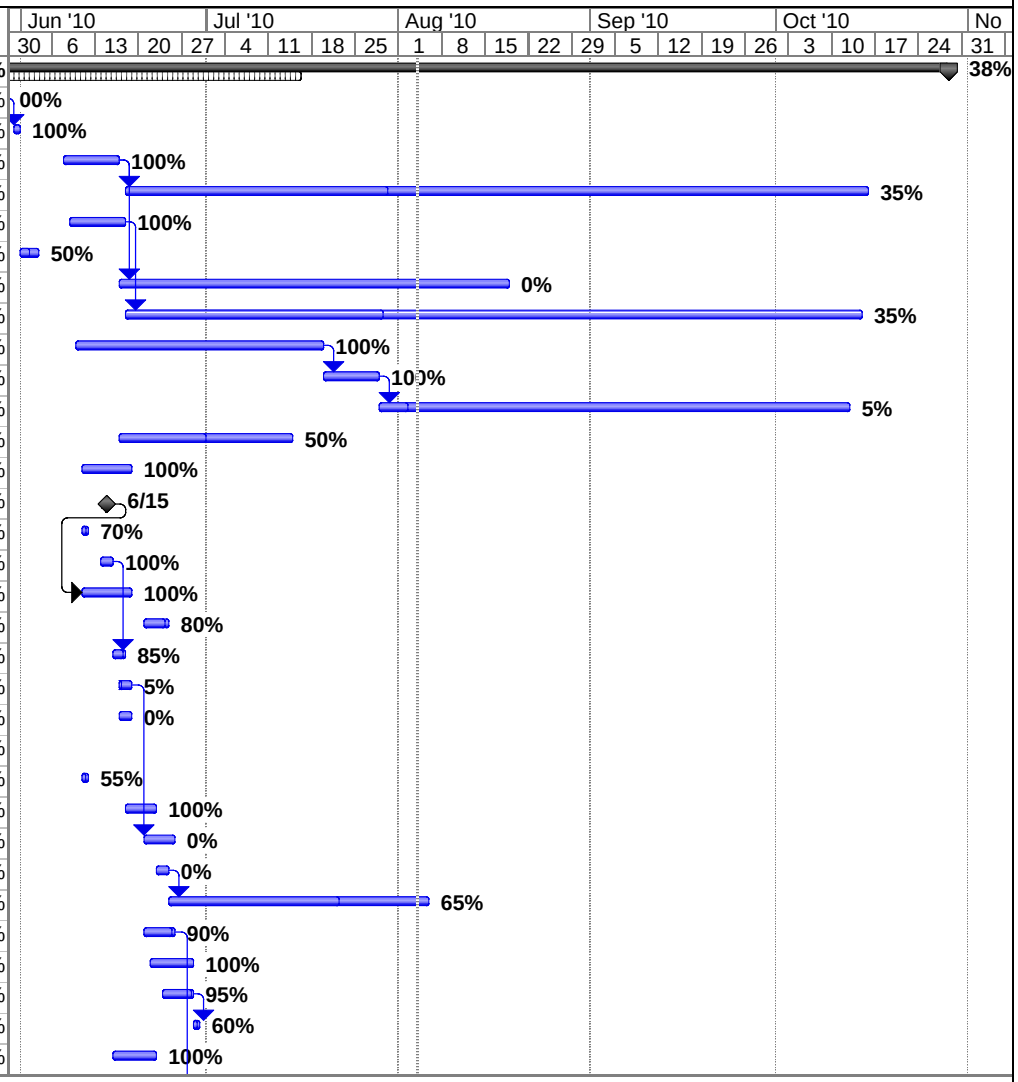
Activities for the next two weeks will include:

- Placement of road base and installation of the sediment pond culvert;
- Completion of concrete foundation demolition;
- Completion of concrete demolition and rubble landfilling;
- Geotechnical testing;
- Compaction testing;
- Channel surveying;
- Resolution of septic phos placement and oxidation of the tank contents;
- Channel excavation;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring and monitoring of slurry pit cap;
- Ore removal from site;
- Road base material import and road base placement and compaction;
- Filter gravel import;
- Survey and placement of sills, weir structures and filter gravel;
- Generation of rip rap from Dud Hollow.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **38%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 100% |
| 5 | Continued SWPPP Inspections/Documentation | 35% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 50% |
| 8 | Road Grading for Material Import | 0% |
| 9 | Construction Dust Suppression | 35% |
| 10 | CQA Oversight | 100% |
| 11 | CQA Oversight | 100% |
| 12 | CQA Oversight | 5% |
| 13 | Quarry and Grade Rip Rap and Borrow | 50% |
| 14 | Grade Areas North and South of Site | 100% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 70% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 100% |
| 19 | SESC/BMP's | 80% |
| 20 | USFS Road Cut | 85% |
| 21 | Import Road Base | 5% |
| 22 | USFS Road Base & Grading | 0% |
| 23 | Compaction Testing | 0% |
| 24 | Surveying | 55% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Sedimentation Basin Construction | 0% |
| 27 | Compaction Testing | 0% |
| 28 | Ore Haul to Soda Springs | 65% |
| 29 | Bulk Select Fill Production | 90% |
| 30 | Compacted Fill Placement at Sed Pond | 100% |
| 31 | Compaction Testing | 95% |
| 32 | Surveying | 60% |
| 33 | Fence Removal | 100% |

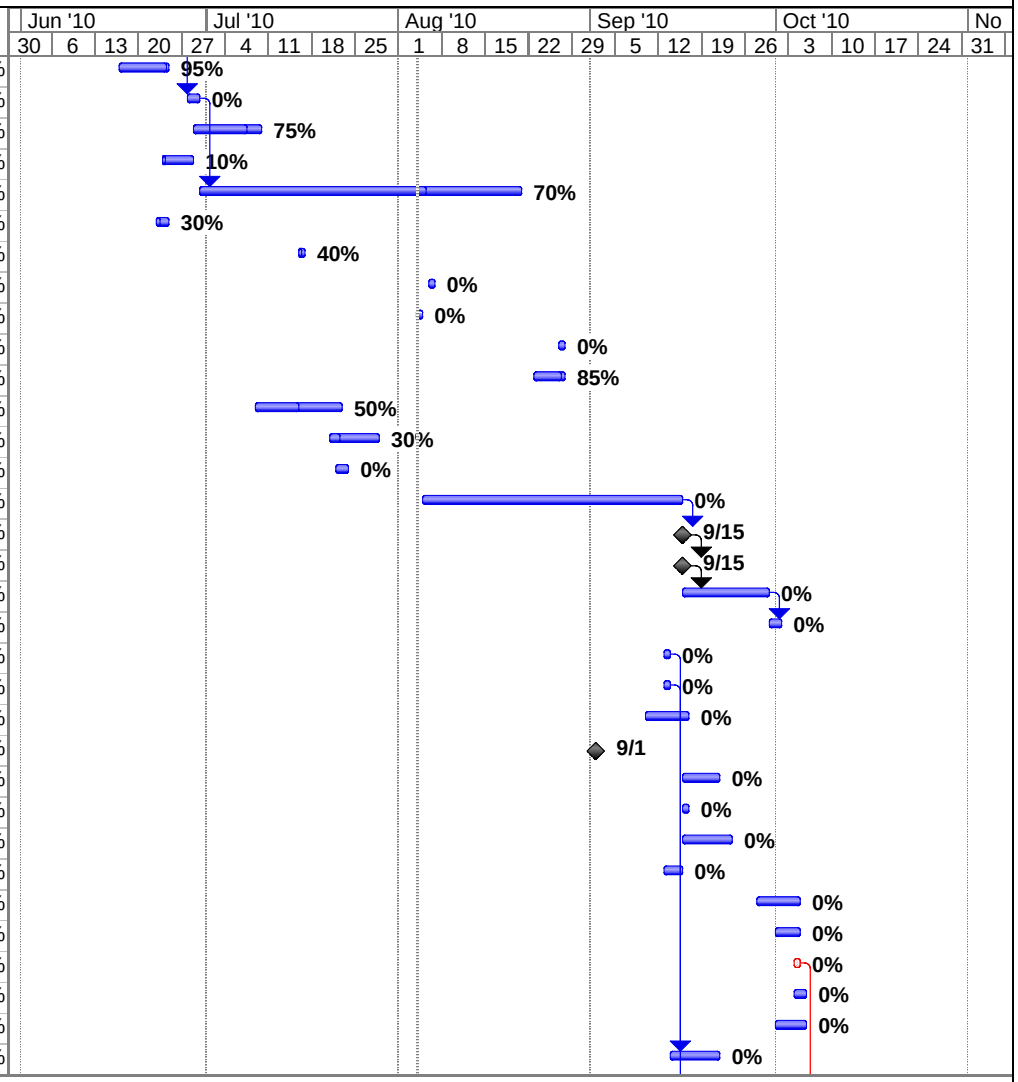



Project: Phase II CMP Bypass Channe
Date: Wed 8/4/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Bldg Foundation Removal & Misc Debris | 95% |
| 35 | Construct Dewatering Sediment Pond | 0% |
| 36 | Grubbing/Prestrip Slag on Channel Excavation Areas | 75% |
| 37 | Improve On-site Roads | 10% |
| 38 | Channel Excavation & Fill Placement | 70% |
| 39 | Obtain Geotechnical Samples | 30% |
| 40 | Surveying | 40% |
| 41 | Surveying | 0% |
| 42 | Obtain Soil Samples for Nutrient Amendment | 0% |
| 43 | Surveying | 0% |
| 44 | Cover C&D landfill | 85% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | 50% |
| 46 | Import Filter Stone & Stockpile | 30% |
| 47 | Obtain/Testing Geotechnical Samples | 0% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 0% |
| 49 | Notify IDWR Prior to Channel Diversion from CMP | 0% |
| 50 | IDWR Inspection | 0% |
| 51 | Topsoil (Channel) | 0% |
| 52 | Surveying | 0% |
| 53 | Tank Spring Channel Excavation | 0% |
| 54 | Abandon Tank Spring Drop Inlet | 0% |
| 55 | Bypass System Setup and Cofferdam | 0% |
| 56 | Survey New ROW for Easement Fence Alignment | 0% |
| 57 | Install Fence and Gates | 0% |
| 58 | CMP Abandonment | 0% |
| 59 | CMP Crossings | 0% |
| 60 | Remove Power Poles | 0% |
| 61 | Bypass System Removal | 0% |
| 62 | Tank Spring Filter Stone & Rip Rap | 0% |
| 63 | Syncline Spring Filter Stone & Rip Rap | 0% |
| 64 | Culverts | 0% |
| 65 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |
| 66 | Hydro seeding (Spoil Areas) | 0% |

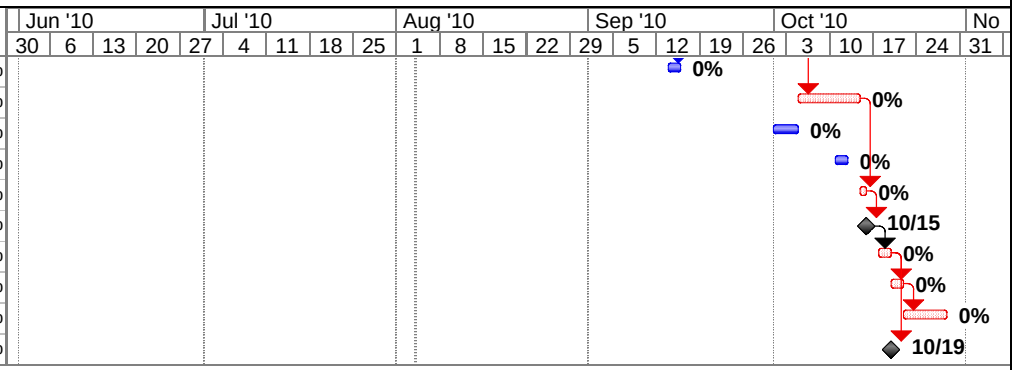



Project: Phase II CMP Bypass Channe
Date: Wed 8/4/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Reclaim Borrow Areas | 0% |
| 68 | Hydro seeding & ECB (Channel) | 0% |
| 69 | Surveying | 0% |
| 70 | Controlled Burn with County Permit | 0% |
| 71 | Stormwater Inspection | 0% |
| 72 | Project Complete | 0% |
| 73 | Demobilization | 0% |
| 74 | Completion Certificate to USACE | 0% |
| 75 | Post Construction Photos to USACE | 0% |
| 76 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Wed 8/4/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:15 PM
**To:** strater4@comcast.net
**Subject:** FW: CF GTC Phase II Remedial Construction Progress Schedule
**Attachments:** 082010 CF RAP Phase II progress schedule.pdf

---

**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Saturday, August 21, 2010 8:10 AM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; kritter@norwestcorp.com; pkos@norwestcorp.com; cemmons@norwestcorp.com; White, Dan; (ddekker@craworld.com)
**Subject:** CF GTC Phase II Remedial Construction Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II and pictures obtained within the past 2 weeks of work progress. Current estimate of the project completion is about 63 percent completed as of August 19, 2010.

**Activities**

Activity highlights over the past 2 weeks include:

- Site grade surveys from Sherbel and from CQA survey;
- Air H&S monitoring;
- Air monitoring of slurry pit cap;
- Site dust mitigation;
- Completion of ore haulage from the site to Soda Springs;
- Partial delivery of filter gravel;
- Partial delivery of sprinkle rock gravel;
- Delivery of road base gravels;
- Daily H&S briefings and work activity/progress meetings;
- Establishment of additional BMPs;
- Placement of additional barricades and site signage;
- SWPPP inspections;
- Grading spoils and area above C&D landfill;
- Channel excavation and spoils placement;
- Excavation of channel below benches;
- Completion of the removal of building foundations;
- Completion of covering of the concrete and rubble landfill;
- Placement of road base gravels on the new road alignment west of slurry pit;
- Completion of placement of road base on the sediment pond dike;
- Partial oxidation of phos contained in the septic tank and oxidation of phos from Tank Spring channel alignment;
- Grading Georgetown Canyon Road with grader and roller;
- Completion of sampling plan for hydrocarbons in soils;
- Completion of sampling from the seven piles with potential hydrocarbon in matrix;
- Completion of coffer dam placement and completion of placement of the bypass pipeline;

- Completion of metals sampling from channel excavation from below leachfield soils, and;
- Survey of weir and sill placements.

**Problems and Resolutions**

Problems that occurred during the past 2 weeks and resolution of these problems included:

- The supplier of road base and filter gravel materials did not have enough quantity of suitable materials for construction of the channel. CRA is securing another source of materials to meet the required balance of filter and sprinkle rock materials to complete the project. This is not expected to impact the schedule timeline.
- The bypass pipeline was placed earlier than anticipated due to the longer than anticipated run of CMP within the excavation.
- The bypass dam was moved further north than initially sited in order to maintain the minimum required 0.8 percent drop to meet grade above the CMP inlet at grade.
- The coffer dam does not hold all of the water that enters the CMP at the inlet. The stream is a gaining reach in this area. As a result, CRA is pumping from a sump at the CMP inlet back to the coffer dam to keep the CMP dry at the inlet.
- The ore remaining in Phosphoria was too clayey for Soda Springs Phosphate to utilize in their process. CRA is hauling out some of the remaining ore to a spoils area and the balance will be soil covered in place such that Phosphoria can be reclaimed and graded to minimize runoff velocities.
- Anti-seepage collars have been added to the design at the sediment pond.
- Ore trucks and other canyon activities were contributing to dust problems in the canyon. Bear Lake County worked on cooperation with Nu-West and SS Phosphate to mag chloride road, grade road and haul in gravel to cover the slag road base up canyon beyond Church Hollow.

**Next 2 Weeks Activities**

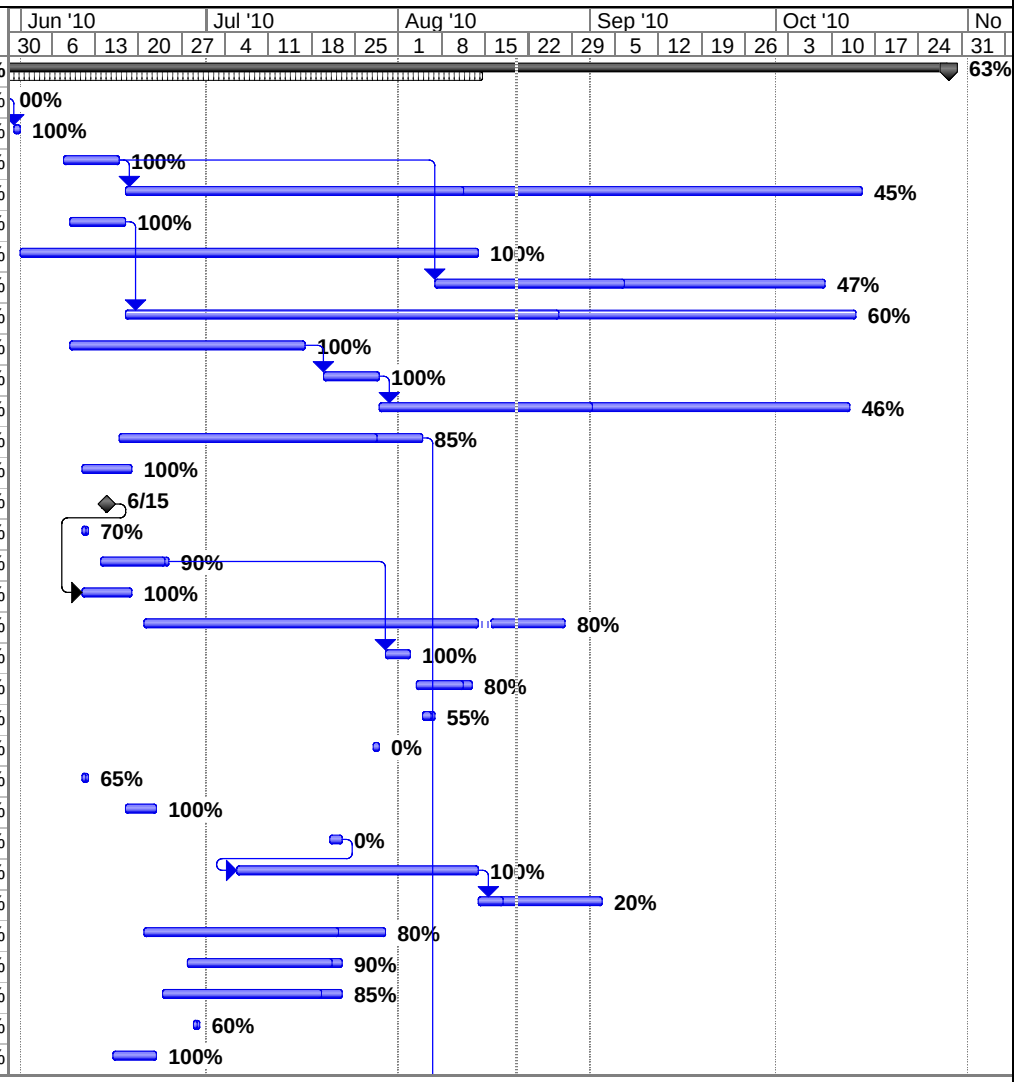
Activities for the next two weeks will include:

- IDEQ inspection of work;
- Placement of road base and installation of the sediment pond culvert;
- Geotechnical testing of filter rock;
- Compaction testing;
- Channel surveying;
- Oxidation of the septic tank contents and Tank Spring spoils;
- Channel excavation;
- Excavation and removal of about 550 feet of CMP;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring and monitoring of slurry pit cap;
- Remaining ore removal to spoils;
- Road base material import and road base placement and compaction;
- Filter gravel import;
- Filter gravel placement and placement of rip rap;
- Receipt of soil organics analyses and comparison with concentrations in draft Idaho Risk Evaluation Manual for Petroleum Releases.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **63%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 100% |
| 5 | Continued SWPPP Inspections/Documentation | 45% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 100% |
| 8 | Road Grading for Material Import | 47% |
| 9 | Construction Dust Suppression | 60% |
| 10 | CQA Oversight | 100% |
| 11 | CQA Oversight | 100% |
| 12 | CQA Oversight | 46% |
| 13 | Quarry and Grade Rip Rap and Borrow | 85% |
| 14 | Grade Areas North and South of Site | 100% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 70% |
| 17 | Test Pits | 90% |
| 18 | Grading & Preparation for Fill | 100% |
| 19 | SESC/BMP's | 80% |
| 20 | USFS Road Cut | 100% |
| 21 | Import Road Base | 80% |
| 22 | USFS Road Base & Grading | 55% |
| 23 | Compaction Testing | 0% |
| 24 | Surveying | 65% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Compaction Testing on culverts | 0% |
| 27 | Ore Haul to Soda Springs | 100% |
| 28 | Clean out Remaining ore in Phosphoria | 20% |
| 29 | Bulk Select Fill Production | 80% |
| 30 | Compacted Fill Placement at Sed Pond | 90% |
| 31 | Compaction Testing | 85% |
| 32 | Surveying | 60% |
| 33 | Fence Removal | 100% |

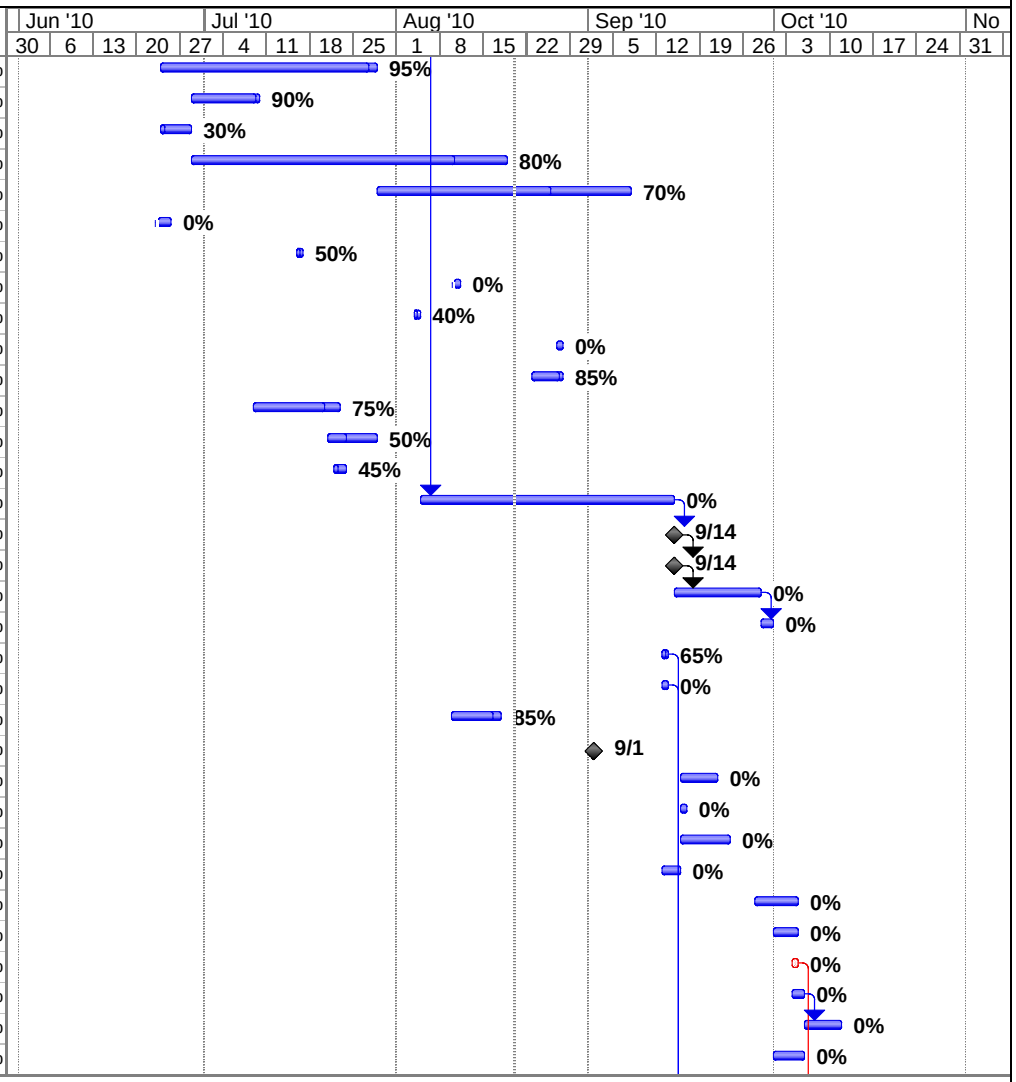



Project: Phase II CMP Bypass Channe
Date: Fri 8/20/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Bldg Foundation Removal & Misc Debris | 95% |
| 35 | Grubbing/Prestrip Slag on Channel Excavation Areas | 90% |
| 36 | Improve On-site Roads | 30% |
| 37 | Channel Excavation & Fill Placement | 80% |
| 38 | Septic Tank Removal - Build Containment/React Phosphorus | 70% |
| 39 | Obtain Geotechnical Samples | 0% |
| 40 | Surveying | 50% |
| 41 | Surveying | 0% |
| 42 | Obtain Soil Samples for Nutrient Amendment | 40% |
| 43 | Surveying | 0% |
| 44 | Cover C&D landfill | 85% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | 75% |
| 46 | Import Filter Stone & Stockpile | 50% |
| 47 | Obtain/Testing Geotechnical Samples | 45% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 0% |
| 49 | Notify IDWR Prior to Channel Diversion from CMP | 0% |
| 50 | IDWR Inspection | 0% |
| 51 | Topsoil (Channel) | 0% |
| 52 | Surveying | 0% |
| 53 | Tank Spring Channel Excavation | 65% |
| 54 | Abandon Tank Spring Drop Inlet | 0% |
| 55 | Bypass System Setup and Cofferdam | 85% |
| 56 | Survey New ROW for Easement Fence Alignment | 0% |
| 57 | Install Fence and Gates | 0% |
| 58 | CMP Abandonment | 0% |
| 59 | CMP Crossings | 0% |
| 60 | Remove Power Poles | 0% |
| 61 | Bypass System Removal | 0% |
| 62 | Tank Spring Filter Stone & Rip Rap | 0% |
| 63 | Syncline Spring Filter Stone & Rip Rap | 0% |
| 64 | Culverts | 0% |
| 65 | Finish Rip Rap in Phosphoria | 0% |
| 66 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |

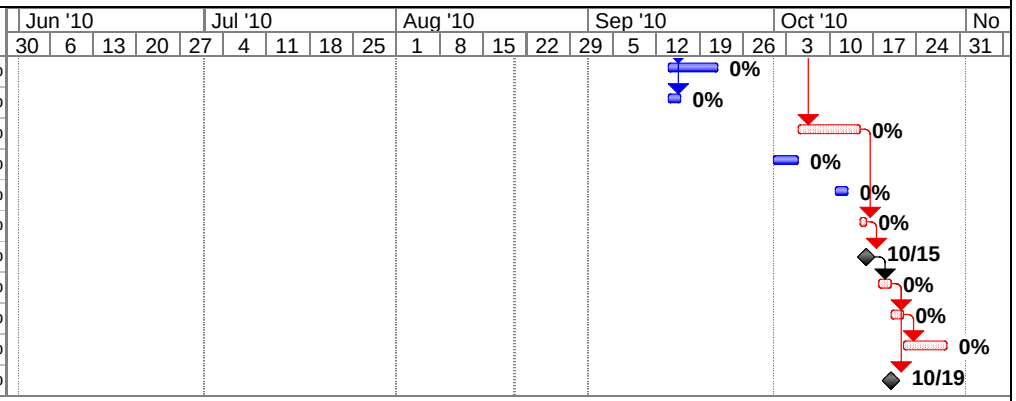



Project: Phase II CMP Bypass Channe
Date: Fri 8/20/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Hydro seeding (Spoil Areas) | 0% |
| 68 | Reclaim Borrow Areas | 0% |
| 69 | Hydro seeding & ECB (Channel) | 0% |
| 70 | Surveying | 0% |
| 71 | Controlled Burn with County Permit | 0% |
| 72 | Stormwater Inspection | 0% |
| 73 | Project Complete | 0% |
| 74 | Demobilization | 0% |
| 75 | Completion Certificate to USACE | 0% |
| 76 | Post Construction Photos to USACE | 0% |
| 77 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 8/20/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:16 PM
**To:** strater4@comcast.net
**Subject:** FW: CF GTC Phase II Remedial Construction Progress Schedule
**Attachments:** DSC03659.jpg; DSC03662.jpg; DSC03642.jpg; 082710 CF RAP Phase II progress schedule.pdf; DSC03622.jpg

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**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Friday, August 27, 2010 4:47 PM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** Douglas.Tanner@deq.idaho.gov; mhart@agrium.com; JBWillia@agrium.com; cemmons@norwestcorp.com; pkos@norwestcorp.com; kritter@norwestcorp.com; wbauman@craworld.com; Downing, Matt; White, Dan; (ddekker@craworld.com)
**Subject:** CF GTC Phase II Remedial Construction Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II and pictures obtained within the past week of work progress. Current estimate of the project completion is about 68 percent completed as of August 27, 2010.

**Activities**

Activity highlights over the past week includes:

- IDEQ and Forest Service inspection of the work;
- Site grade surveys from Sherbel;
- Air H&S monitoring;
- Air monitoring of slurry pit cap;
- Site dust mitigation;
- Daily H&S briefings and work activity/progress meetings;
- Establishment of additional BMPs;
- SWPPP inspections;
- Grading spoils and area above C&D landfill;
- Grading and clean up of Phosphoria Gulch and soil placement;
- Clean up of slope east of the sed pond;
- Channel excavation and spoils placement;
- Removal of the CMP from 20+00 to 26+00;
- Excavation of channel below benches;
- Completion of oxidation of phos contained in the septic tank and oxidation of phos from Tank Spring channel alignment;
- Grading Georgetown Canyon Road with grader;
- Approval of new filter rock, road base and sprinkle materials following geotechnical testing results;
- Initiation of filter gravel and rip rap placement and;
- Survey of weir and sill placements.

**Problems and Resolutions**

Problems that occurred during the past week and resolution of these problems included:

- Benches will require additional rock placements to tie in the 2:1 slope to the rip rap to maintain the required 8 – foot channel widths. The designs were slightly modified such that the benches will still be 2 feet in width, but the benches will contain additional rock.
- Plunge pool subgrades will cut into the benches but the materials placed back as fill will still maintain the required 2 foot width.
- The 4 inch pump quit working at the CMP inlet for several hours. The sump was reconstructed with a sand filter to remove larger debris and the subcontractor will deliver 2 new pumps to replace existing pumps.

**Next 2 Weeks Activities**

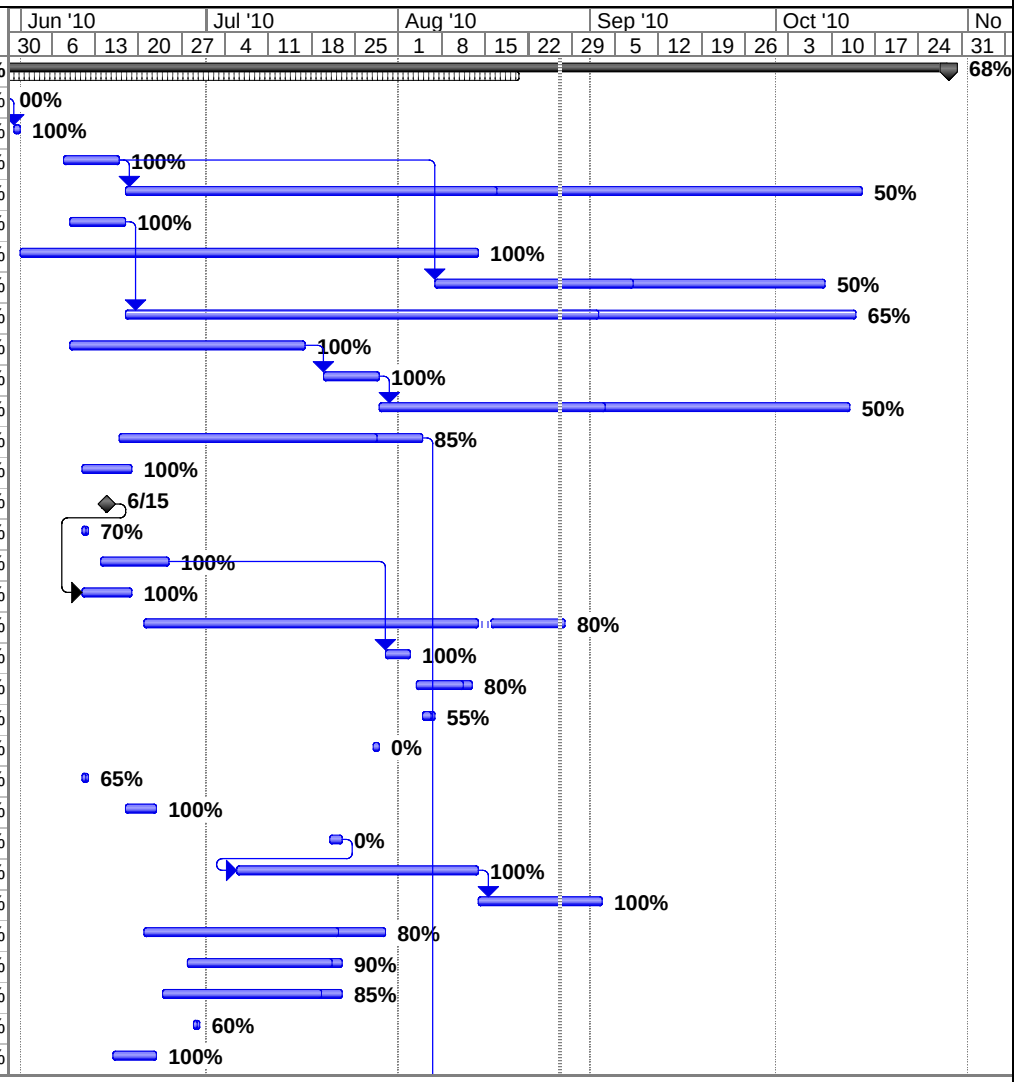
Activities for the next two weeks will include:

- Placement of road base and installation of the sediment pond culvert;
- Geotechnical testing of filter rock;
- Compaction testing;
- Channel surveying;
- Channel excavation;
- Excavation and removal of about 550 feet of CMP;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring and monitoring of slurry pit cap;
- Remaining ore removal to spoils;
- Road base material import and road base placement and compaction;
- Filter gravel import;
- Filter gravel placement and placement of rip rap;
- Receipt of soil organics analyses and comparison with concentrations in draft Idaho Risk Evaluation Manual for Petroleum Releases.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **68%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 100% |
| 5 | Continued SWPPP Inspections/Documentation | 50% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 100% |
| 8 | Road Grading for Material Import | 50% |
| 9 | Construction Dust Suppression | 65% |
| 10 | CQA Oversight | 100% |
| 11 | CQA Oversight | 100% |
| 12 | CQA Oversight | 50% |
| 13 | Quarry and Grade Rip Rap and Borrow | 85% |
| 14 | Grade Areas North and South of Site | 100% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 70% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 100% |
| 19 | SESC/BMP's | 80% |
| 20 | USFS Road Cut | 100% |
| 21 | Import Road Base | 80% |
| 22 | USFS Road Base & Grading | 55% |
| 23 | Compaction Testing | 0% |
| 24 | Surveying | 65% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Compaction Testing on culverts | 0% |
| 27 | Ore Haul to Soda Springs | 100% |
| 28 | Clean out Remaining ore in Phosphoria | 100% |
| 29 | Bulk Select Fill Production | 80% |
| 30 | Compacted Fill Placement at Sed Pond | 90% |
| 31 | Compaction Testing | 85% |
| 32 | Surveying | 60% |
| 33 | Fence Removal | 100% |

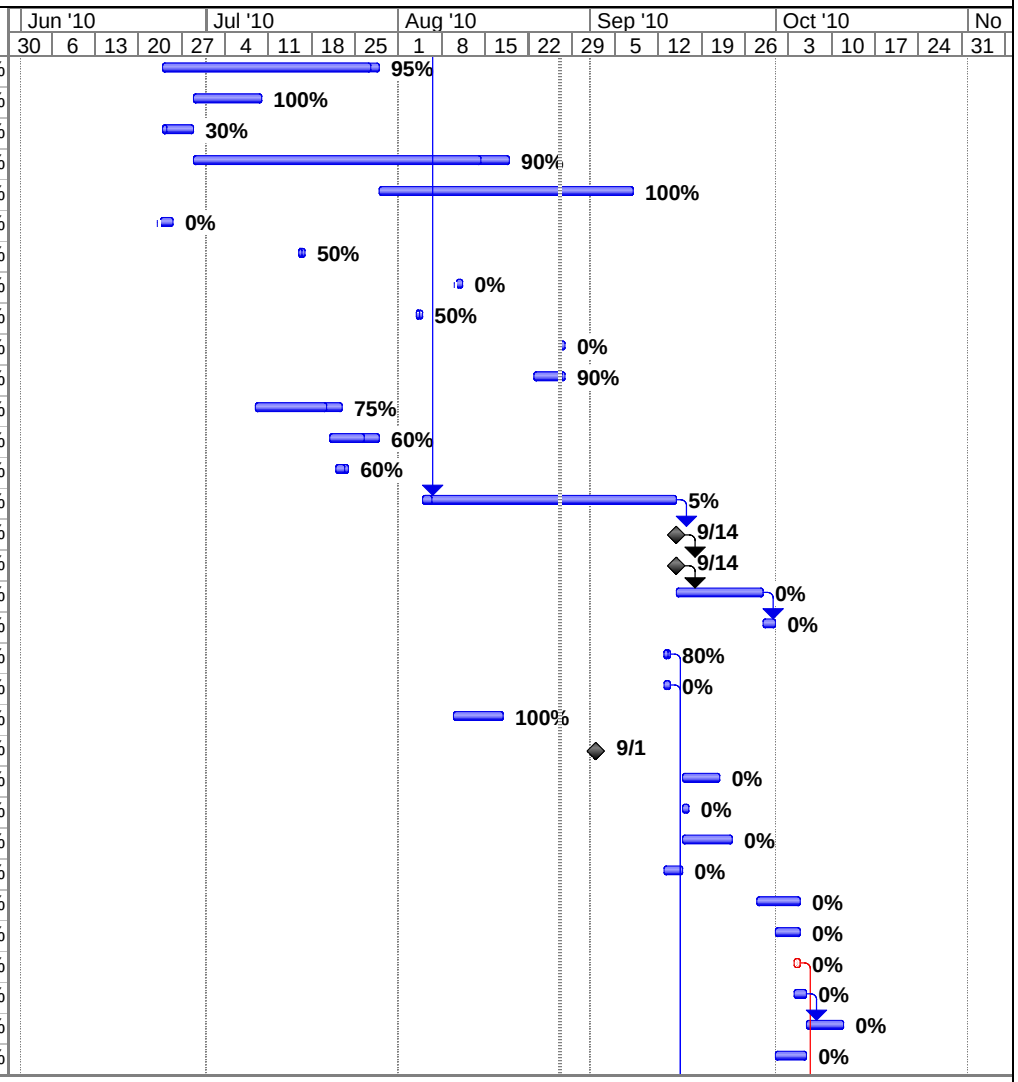



Project: Phase II CMP Bypass Channe
Date: Fri 8/27/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Bldg Foundation Removal & Misc Debris | 95% |
| 35 | Grubbing/Prestrip Slag on Channel Excavation Areas | 100% |
| 36 | Improve On-site Roads | 30% |
| 37 | Channel Excavation & Fill Placement | 90% |
| 38 | Septic Tank Removal - Build Containment/React Phosphorus | 100% |
| 39 | Obtain Geotechnical Samples | 0% |
| 40 | Surveying | 50% |
| 41 | Surveying | 0% |
| 42 | Obtain Soil Samples for Nutrient Amendment | 50% |
| 43 | Surveying | 0% |
| 44 | Cover C&D landfill | 90% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | 75% |
| 46 | Import Filter Stone & Stockpile | 60% |
| 47 | Obtain/Testing Geotechnical Samples | 60% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 5% |
| 49 | Notify IDWR Prior to Channel Diversion from CMP | 0% |
| 50 | IDWR Inspection | 0% |
| 51 | Topsoil (Channel) | 0% |
| 52 | Surveying | 0% |
| 53 | Tank Spring Channel Excavation | 80% |
| 54 | Abandon Tank Spring Drop Inlet | 0% |
| 55 | Bypass System Setup and Cofferdam | 100% |
| 56 | Survey New ROW for Easement Fence Alignment | 0% |
| 57 | Install Fence and Gates | 0% |
| 58 | CMP Abandonment | 0% |
| 59 | CMP Crossings | 0% |
| 60 | Remove Power Poles | 0% |
| 61 | Bypass System Removal | 0% |
| 62 | Tank Spring Filter Stone & Rip Rap | 0% |
| 63 | Syncline Spring Filter Stone & Rip Rap | 0% |
| 64 | Culverts | 0% |
| 65 | Finish Rip Rap in Phosphoria | 0% |
| 66 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |

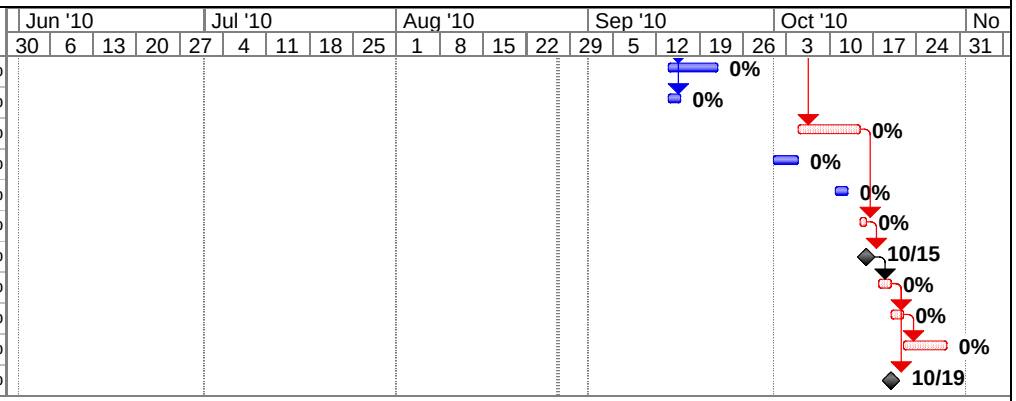



Project: Phase II CMP Bypass Channe
Date: Fri 8/27/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Hydro seeding (Spoil Areas) | 0% |
| 68 | Reclaim Borrow Areas | 0% |
| 69 | Hydro seeding & ECB (Channel) | 0% |
| 70 | Surveying | 0% |
| 71 | Controlled Burn with County Permit | 0% |
| 72 | Stormwater Inspection | 0% |
| 73 | Project Complete | 0% |
| 74 | Demobilization | 0% |
| 75 | Completion Certificate to USACE | 0% |
| 76 | Post Construction Photos to USACE | 0% |
| 77 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 8/27/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:17 PM
**To:** strater4@comcast.net
**Subject:** FW: CF GTC Phase II Remedial Construction Progress Schedule
**Attachments:** 091010 CF RAP Phase II progress schedule.pdf; DSC03736.jpg; DSC03721.jpg; DSC03723.jpg; DSC03725.jpg

---

**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Friday, September 10, 2010 2:24 PM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; pkos@norwestcorp.com; kritter@norwestcorp.com; cemmons@norwestcorp.com; Downing, Matt; White, Dan; wbauman@craworld.com; (ddekker@craworld.com)
**Subject:** CF GTC Phase II Remedial Construction Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II and pictures obtained within the past 2 weeks of work progress. Current estimate of the project completion is about 75 percent completed as of September 10, 2010.

**Activities**

Activity highlights over the past 2 weeks includes:

- Completion of ore haul from site to Soda Springs (includes remaining clean out ore removed from Phosphoria by CRA);
- Completion of soils sampling collection for nutrient amendment;
- IDEQ, Forest Service and EPA Region 10 site visit and inspection of the work;
- Site channel subgrade survey and finish grade and weir surveys from Sherbel;
- Site inspection by design engineer from Norwest;
- Site inspection of weir and channel construction by Confluence Consulting and receipt of their recommendations;
- Air H&S monitoring;
- Air monitoring of slurry pit cap;
- Site dust mitigation;
- Daily H&S briefings and work activity/progress meetings;
- Establishment of additional BMPs below sediment pond and middle spoils section;
- SWPPP inspections;
- Grading spoils and area above C&D landfill;
- Partial grading of the road to the mine to improve drainage away from the site;
- Recycling of CMP and other excavated steel to Western Metals;
- Channel excavation and spoils placement;
- Excavation of channel below benches;
- Receipt of the results from the drainfield soils results and analysis of results and report transmittal;
- Receipt of hydrocarbon soils results and analysis of risk;
- Filter gravel, rip rap, sill and weir placement, and;
- Approval from IDEQ for covering of soils affected by hydrocarbons.

**Problems and Resolutions**

Problems that occurred during the past week and resolution of these problems included:

- Weather delays;
- Equipment problems with excavator and loader, flat tires on haul truck. These problems have been fixed and equipment is back to work.

**Next 2 Weeks Activities**

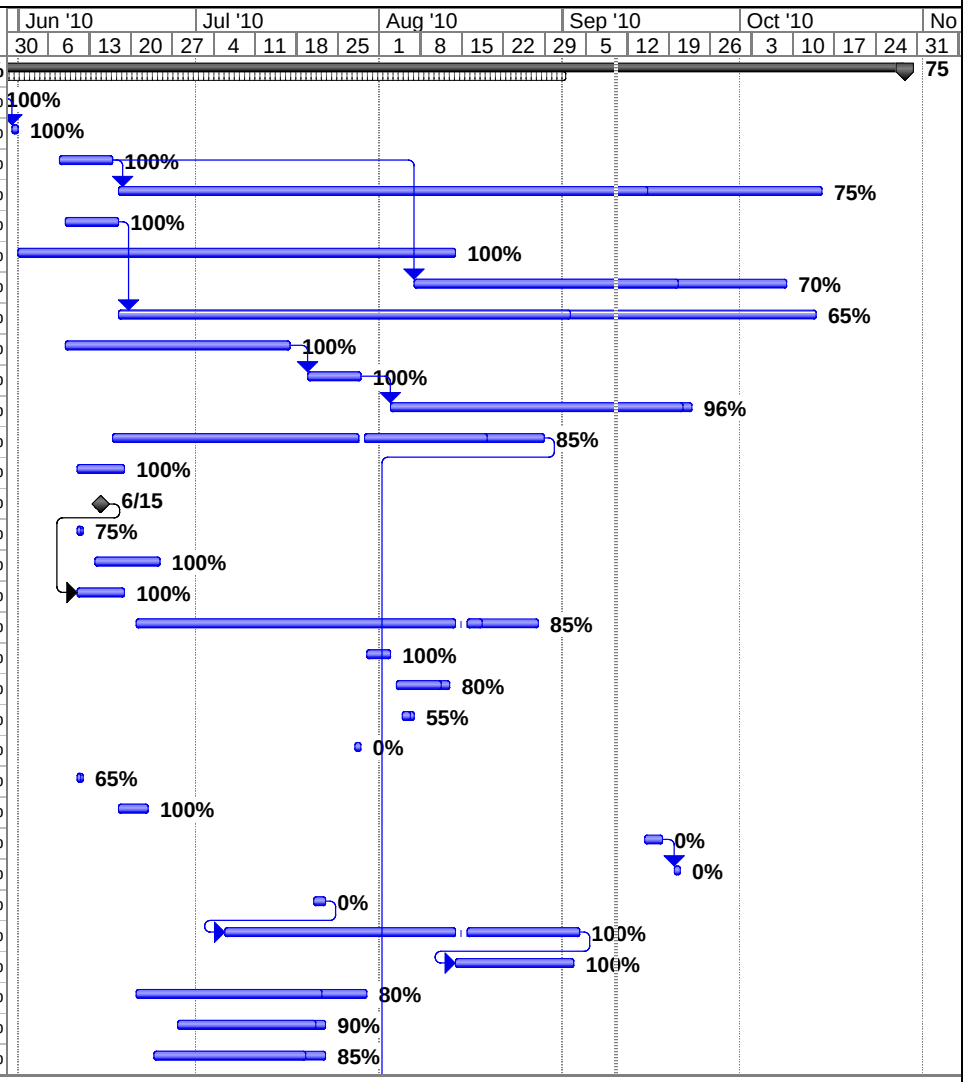
Activities for the next two weeks will or may include:

- Placement of road base and installation of the sediment pond culvert;
- Compaction testing;
- Channel surveying;
- Channel excavation;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring;
- Road base material import and road base placement and compaction;
- Filter gravel import, and;
- Filter gravel placement and placement of rip rap, weirs and sills.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **75%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 100% |
| 5 | Continued SWPPP Inspections/Documentation | 75% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 100% |
| 8 | Road Grading for Material Import | 70% |
| 9 | Construction Dust Suppression | 65% |
| 10 | CQA Oversight | 100% |
| 11 | CQA Oversight | 100% |
| 12 | CQA Oversight | 96% |
| 13 | Quarry and Grade Rip Rap and Borrow | 85% |
| 14 | Grade Areas North and South of Site | 100% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 75% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 100% |
| 19 | SESC/BMP's | 85% |
| 20 | USFS Road Cut | 100% |
| 21 | Import Road Base | 80% |
| 22 | USFS/Site Road Base & Grading | 55% |
| 23 | Compaction Testing | 0% |
| 24 | Surveying | 65% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Sediment Pond Culvert Placement | 0% |
| 27 | Complete Phosphoria Channel to Sed pond | 0% |
| 28 | Compaction Testing on culverts | 0% |
| 29 | Ore Haul to Soda Springs | 100% |
| 30 | Clean out Remaining ore in Phosphoria | 100% |
| 31 | Bulk Select Fill Production | 80% |
| 32 | Compacted Fill Placement at Sed Pond | 90% |
| 33 | Compaction Testing | 85% |

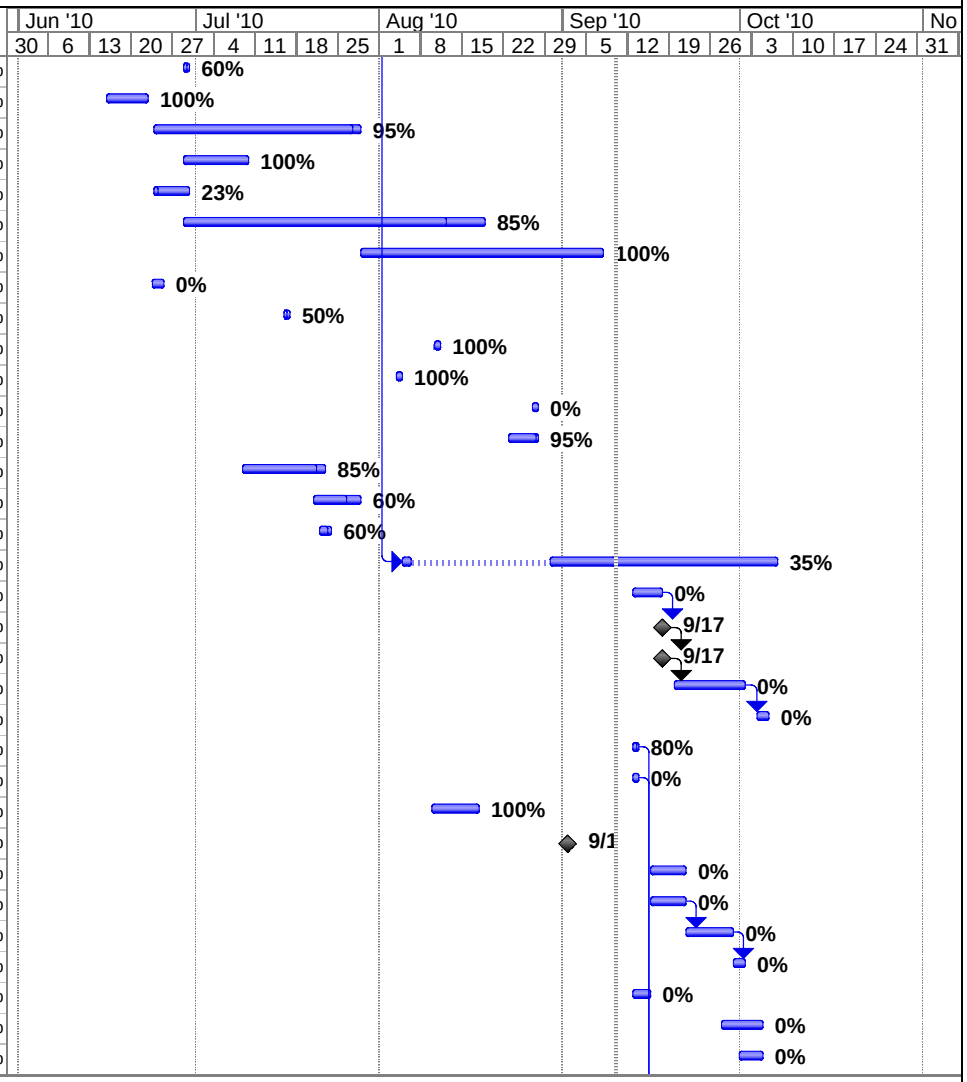



Project: Phase II CMP Bypass Channe
Date: Fri 9/10/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | ◇ | External Milestone | ◆ |
| Task | | Milestone | ◆ | Deadline | ⇩ |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Surveying | 60% |
| 35 | Fence Removal | 100% |
| 36 | Bldg Foundation Removal & Misc Debris | 95% |
| 37 | Grubbing/Prestrip Slag on Channel Excavation Areas | 100% |
| 38 | Improve On-site Roads | 23% |
| 39 | Channel Excavation & Fill Placement | 85% |
| 40 | Septic Tank Removal - Build Containment/React Phosphorus | 100% |
| 41 | Obtain Geotechnical Samples | 0% |
| 42 | Surveying | 50% |
| 43 | Surveying | 100% |
| 44 | Obtain Soil Samples for Nutrient Amendment | 100% |
| 45 | Surveying | 0% |
| 46 | Cover C&D landfill | 95% |
| 47 | Rip Rap Screening, Sorting, and Stockpiling | 85% |
| 48 | Import Filter Stone & Stockpile | 60% |
| 49 | Obtain/Testing Geotechnical Samples | 60% |
| 50 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 35% |
| 51 | Place Erosion Control Blankets | 0% |
| 52 | Notify IDWR Prior to Channel Diversion from CMP | 0% |
| 53 | IDWR Inspection | 0% |
| 54 | Topsoil (Channel) | 0% |
| 55 | Surveying | 0% |
| 56 | Tank Spring Channel Excavation | 80% |
| 57 | Abandon Tank Spring Drop Inlet | 0% |
| 58 | Bypass System Setup and Cofferdam | 100% |
| 59 | Survey New ROW for Easement Fence Alignment | 0% |
| 60 | Install Fence and Gates | 0% |
| 61 | CMP Abandonment | 0% |
| 62 | CMP Crossings | 0% |
| 63 | Tunnel Abandonment | 0% |
| 64 | Remove Power Poles | 0% |
| 65 | Bypass System Removal | 0% |
| 66 | Tank Spring Filter Stone & Rip Rap | 0% |

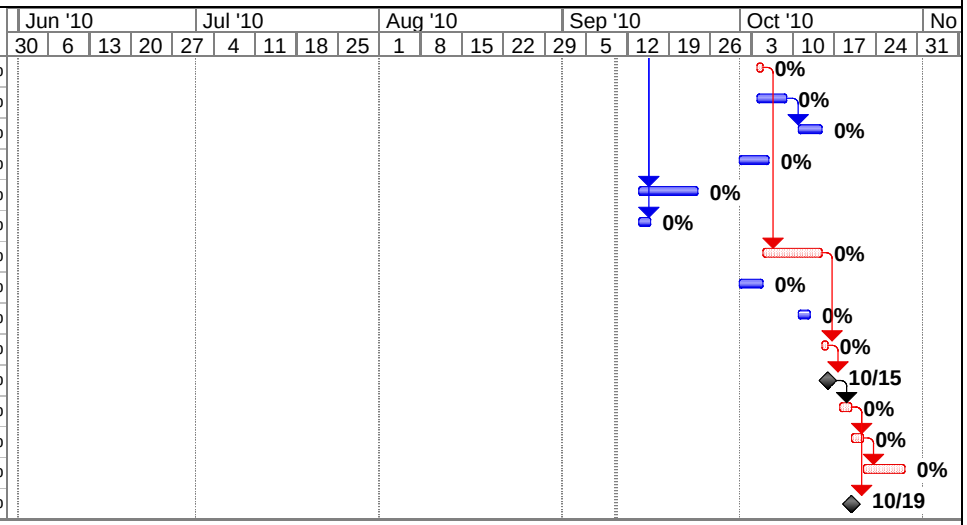



Project: Phase II CMP Bypass Channe
Date: Fri 9/10/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Syncline Spring Filter Stone & Rip Rap | 0% |
| 68 | Culverts | 0% |
| 69 | Finish Rip Rap in Phosphoria | 0% |
| 70 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |
| 71 | Hydro seeding (Spoil Areas, Dud Hollow, Phosphoria,Channel,C&D) ) | 0% |
| 72 | Reclaim Borrow Areas | 0% |
| 73 | Hydro seeding & ECB (Channel) | 0% |
| 74 | Surveying | 0% |
| 75 | Controlled Burn with County Permit | 0% |
| 76 | Stormwater Inspection | 0% |
| 77 | Project Complete | 0% |
| 78 | Demobilization | 0% |
| 79 | Completion Certificate to USACE | 0% |
| 80 | Post Construction Photos to USACE | 0% |
| 81 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 9/10/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:17 PM
**To:** strater4@comcast.net
**Subject:** FW: Farmers Georgetown Canyon Remedial Action, Phase II Progress Schedule
**Attachments:** 092410 CF RAP Phase II progress schedule.pdf; DSC03910.jpg; DSC03857.jpg; DSC03876.jpg; DSC03949.jpg; DSC03789.jpg

---

**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Friday, September 24, 2010 7:07 PM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; White, Dan; (ddekker@craworld.com); wbauman@craworld.com; pkos@norwestcorp.com; cemmons@norwestcorp.com; kritter@norwestcorp.com
**Subject:** Farmers Georgetown Canyon Remedial Action, Phase II Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II and pictures obtained within the past 2 weeks of work progress. Current estimate of the project completion is about 84 percent completed as of September 24, 2010.

**Activities**

Activity highlights over the past 2 weeks includes:

- Site channel subgrade survey and finish grade and weir surveys from Sherbel;
- Air H&S monitoring;
- Site dust mitigation;
- Daily H&S briefings and work activity/progress meetings;
- SWPPP inspections;
- Commencement of environmental covenant preparation for site;
- Additional soil placement and grading spoils and area above C&D landfill;
- Channel excavation and spoils placement;
- Placement of erosion control blankets at benches and bench construction;
- Generation of rip rap materials;
- Spoils placement to fill in low areas, including areas of former coke fines, middle spoils and Phosphoria Gulch;
- Survey of location and covering of septic tank and soils tested for hydrocarbons;
- On-site road construction around slurry pit;
- Fence survey and fence line preparation and commencement of fence installation;
- Abandonment of conveyor tunnel;
- Completion of filter gravel and rip rap placement for Tank Spring;
- Completion of culvert placements at Tank Spring and Syncline Spring;
- Completion of lower CMP crossing;
- Completion of weir placements;
- Preparation of upper CMP crossing for construction;
- Preparation of CMP inlet abandonment and pump movement north of current location;
- Slope growth medium preparation;
- Work on reclamation of borrow source in Dud Hollow;

- Reclamation near mouth of Phosphoria;
- Oversight construction quality assurance reporting from Confluence Consulting Incorporated;
- Completion of rip rap in Phosphoria Gulch and reestablishment of drainage to sediment pond;
- Completion of reclamation area preparation at Phosphoria Gulch, C&D landfill, middles spoils and north spoils areas;
- Commencement of reclamation work;
- Excavation of channel below benches;
- Dewatering;
- Filter gravel, rip rap, sill and weir placement, and;
- IDEQ inspection on September 21.

**Problems and Resolutions**

Problems that occurred during the past week and resolution of these problems included:

- Leakage from Syncline Spring culvert under USFS road easement. This is being re-excavated, repaired, and materials recompacted and tested to ensure that the pipe does not leak and will not leak in the future.

**Next 2 Weeks Activities**

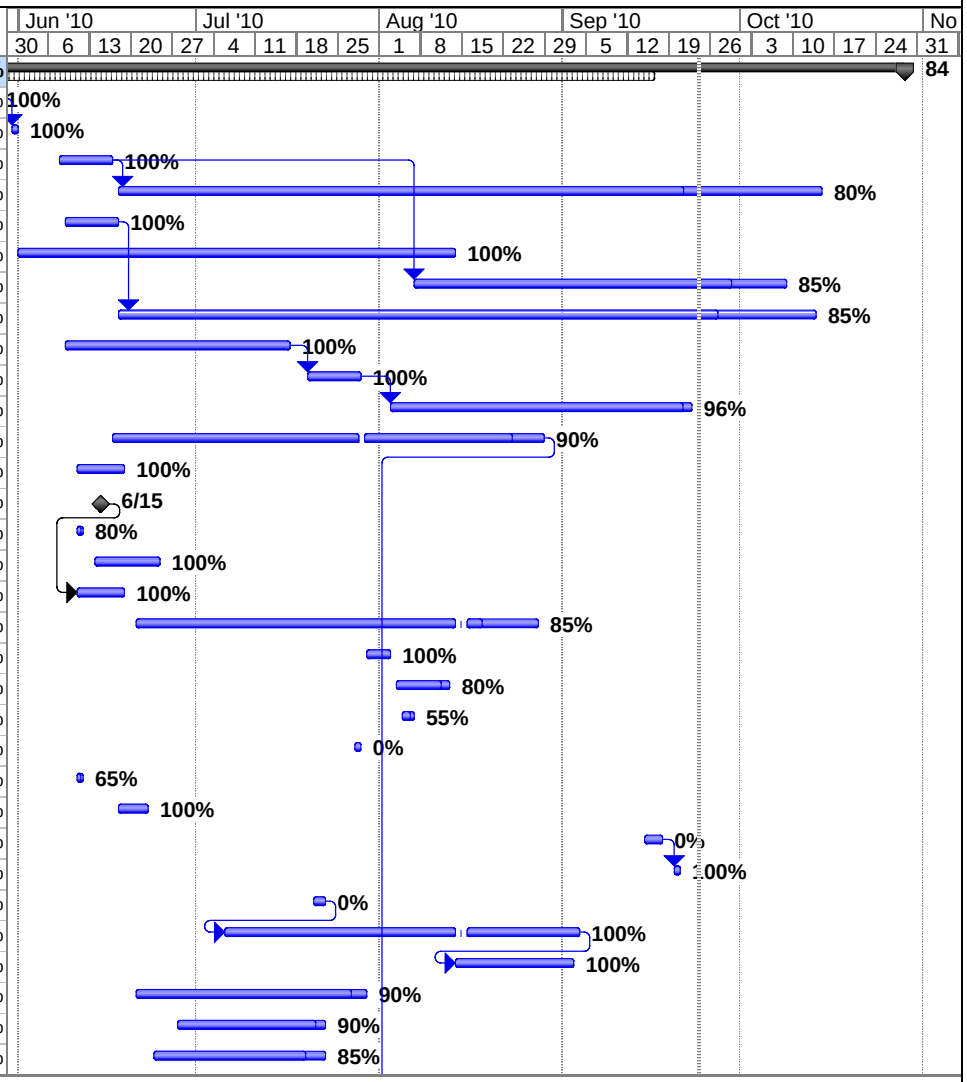
Activities for the next two weeks will include:

- Repair of Syncline Spring culvert;
- Site grading with spoils to control surface runoff;
- Address punch list items as per Nu-West, GET and CRA;
- Reclamation work;
- Complete work in Dud Hollow;
- CMP abandonment;
- Placement of road base and installation of the sediment pond culvert and anti-seepage collars;
- Compaction testing;
- Channel surveying;
- PLS USFS Easement survey for record;
- Channel excavation;
- Spoils placement and compaction;
- Dust control;
- H&S monitoring;
- Road base placement and compaction;
- Completion of Rip rap generation;
- Completion of filter gravel placement and placement of rip rap and sills;
- Connection with existing channel on October 6;
- PE inspection of work in compliance with IFC drawings and specifications;
- IDEQ, IDWR and USACE inspection;
- Fill existing channel and compact to 0+00;
- Bench construction and ECM placement.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **84%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 100% |
| 5 | Continued SWPPP Inspections/Documentation | 80% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 100% |
| 8 | Road Grading for Material Import | 85% |
| 9 | Construction Dust Suppression | 85% |
| 10 | CQA Oversight | 100% |
| 11 | CQA Oversight | 100% |
| 12 | CQA Oversight | 96% |
| 13 | Quarry and Grade Rip Rap and Borrow | 90% |
| 14 | Grade Areas North and South of Site | 100% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 80% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 100% |
| 19 | SESC/BMP's | 85% |
| 20 | USFS Road Cut | 100% |
| 21 | Import Road Base | 80% |
| 22 | USFS/Site Road Base & Grading | 55% |
| 23 | Compaction Testing | 0% |
| 24 | Surveying | 65% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Sediment Pond Culvert Placement | 0% |
| 27 | Complete Phosphoria Channel to Sed pond | 100% |
| 28 | Compaction Testing on culverts | 0% |
| 29 | Ore Haul to Soda Springs | 100% |
| 30 | Clean out Remaining ore in Phosphoria | 100% |
| 31 | Bulk Select Fill Production | 90% |
| 32 | Compacted Fill Placement at Sed Pond | 90% |
| 33 | Compaction Testing | 85% |

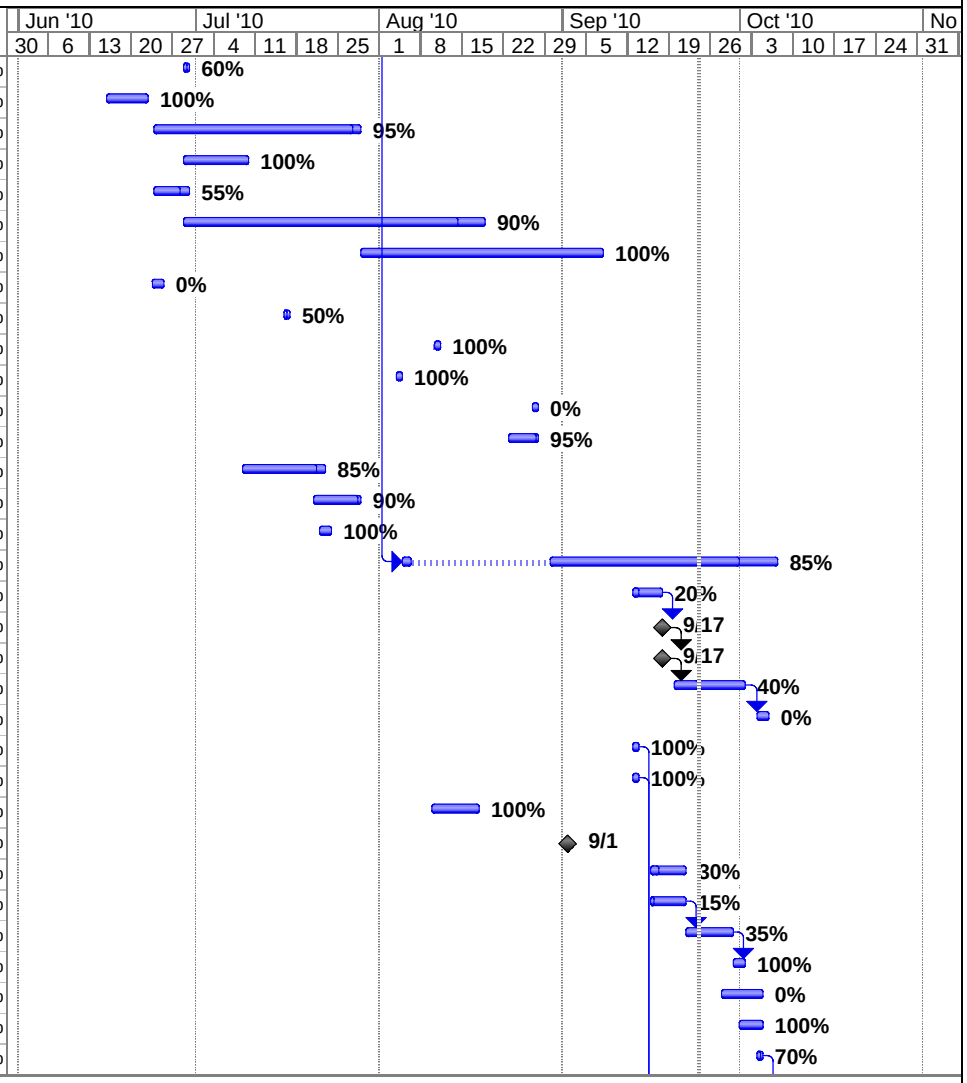



Project: Phase II CMP Bypass Channe
Date: Fri 9/24/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Surveying | 60% |
| 35 | Fence Removal | 100% |
| 36 | Bldg Foundation Removal & Misc Debris | 95% |
| 37 | Grubbing/Prestrip Slag on Channel Excavation Areas | 100% |
| 38 | Improve On-site Roads | 55% |
| 39 | Channel Excavation & Fill Placement | 90% |
| 40 | Septic Tank Removal - Build Containment/React Phosphorus | 100% |
| 41 | Obtain Geotechnical Samples | 0% |
| 42 | Surveying | 50% |
| 43 | Surveying | 100% |
| 44 | Obtain Soil Samples for Nutrient Amendment | 100% |
| 45 | Easement Surveying | 0% |
| 46 | Cover C&D landfill | 95% |
| 47 | Rip Rap Screening, Sorting, and Stockpiling | 85% |
| 48 | Import Filter Stone & Stockpile | 90% |
| 49 | Obtain/Testing Geotechnical Samples | 100% |
| 50 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 85% |
| 51 | Place Erosion Control Blankets | 20% |
| 52 | Notify IDWR Prior to Channel Diversion from CMP | 0% |
| 53 | IDWR Inspection | 0% |
| 54 | Prepare Growth Medium and Benches for Reclamation (Topsoil Channel) | 40% |
| 55 | Surveying | 0% |
| 56 | Tank Spring Channel Excavation | 100% |
| 57 | Abandon Tank Spring Drop Inlet | 100% |
| 58 | Bypass System Setup and Cofferdam | 100% |
| 59 | Survey New ROW for Easement Fence Alignment | 0% |
| 60 | Install Fence and Gates | 30% |
| 61 | CMP Abandonment | 15% |
| 62 | CMP Crossings | 35% |
| 63 | Tunnel Abandonment | 100% |
| 64 | Bypass System Removal | 0% |
| 65 | Tank Spring Filter Stone & Rip Rap | 100% |
| 66 | Syncline Spring Filter Stone & Rip Rap | 70% |

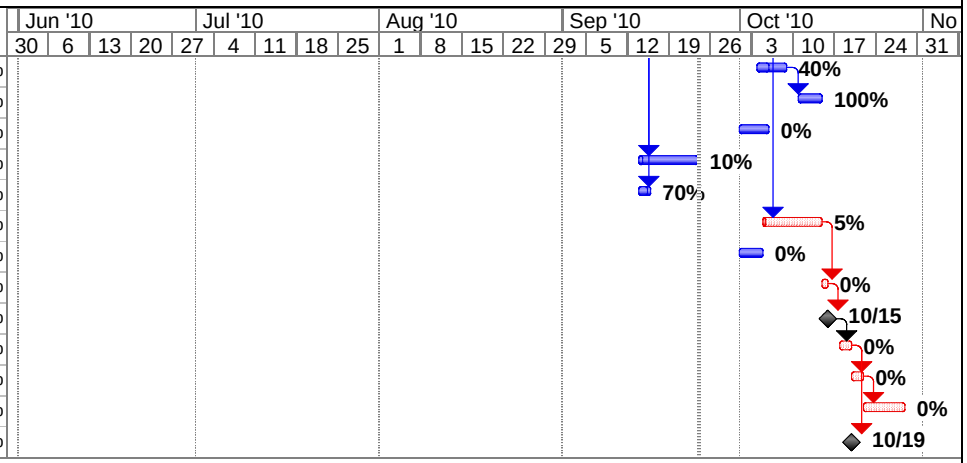



Project: Phase II CMP Bypass Channe
Date: Fri 9/24/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Culverts | 40% |
| 68 | Finish Rip Rap in Phosphoria | 100% |
| 69 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |
| 70 | Hydro seeding (Spoil Areas, Dud Hollow, Phosphoria,Channel,C&D) ) | 10% |
| 71 | Reclaim Borrow Areas | 70% |
| 72 | Hydro seeding & ECB (Channel) | 5% |
| 73 | Surveying | 0% |
| 74 | Stormwater Inspection | 0% |
| 75 | Project Complete | 0% |
| 76 | Demobilization | 0% |
| 77 | Completion Certificate to USACE | 0% |
| 78 | Post Construction Photos to USACE | 0% |
| 79 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 9/24/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:17 PM
**To:** strater4@comcast.net
**Subject:** FW: Farmers Georgetown Canyon Remedial Action, Phase II Progress Schedule
**Attachments:** 100810 CF RAP Phase II progress schedule.pdf; DSC04071.jpg; DSC04115.jpg; DSC04191.jpg; DSC04199.jpg; DSC04202.jpg; DSC04210.jpg; DSC04219.jpg; DSC04244.jpg; DSC04246.jpg; DSC04256.jpg; DSC04259.jpg; DSC04268.jpg; DSC04266.jpg

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**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Friday, October 08, 2010 6:39 PM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; White, Dan; wbauman@craworld.com; pkos@norwestcorp.com; kritter@norwestcorp.com; cemmons@norwestcorp.com
**Subject:** Farmers Georgetown Canyon Remedial Action, Phase II Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II and pictures obtained within the past 2 weeks of work progress. Current estimate of the project completion is about 95 percent completed as of October 8, 2010.

**Activities**

Activity highlights over the past 2 weeks includes:

- Site channel subgrade survey, as-built and finish grade surveys from Sherbel;
- USFS road easement survey;
- Air H&S monitoring;
- Site dust mitigation;
- Daily H&S briefings and work activity/progress meetings;
- SWPPP inspections;
- Work on environmental covenant preparation for site;
- Reclamation and hydro seeding of spoils area above and on C&D landfill;
- Completion of channel excavation and spoils placement;
- Placement of 2B erosion control blankets above benches and bench construction and hydro seeding of slopes;
- Generation of rip rap materials;
- Completion of placement of filter gravel and rip rap;
- Completion of grading of low areas, including areas of former coke fines, middle part of site and southwest of Phosphoria Gulch;
- On-site road construction and additional culvert placement to drain west of Phosphoria;
- Fence installation;
- On-site roadwork improvements;
- Abandonment grouting of CMP inlet;
- Tie in new channel to existing channel;
- Placement of growth medium on Tank Spring slopes;
- Drainage improvements for Syncline Spring;
- Additional BMP placements;

- Completion of culvert and anti-seepage collar placements at Sediment pond;
- Placement of filter fabric and rip rapped chute spillways from side drainages;
- Completion abandonment and grouting of upper CMP crossing;
- Fill in of pumpback sump location in Georgetown Creek channel above former CMP inlet;
- Slope growth medium preparation;
- Reclamation hydro seeding and straw wattle placement in Dud Hollow;
- Retracking of south spoils area;
- Reclamation hydro seeding completion of north, middle and south spoils areas;
- Slope fine grading, bench construction and completion of Type 3B ECB placement;
- Reclamation grading of Dud Hollow;
- PE site inspection on September 28;
- IDWR inspection of completed channel work on October 1;
- Georgetown City Council meeting presentation on October 5;
- Ground and surface water sampling and surface water flow measurements;
- IDEQ inspection on October 6 of water introduction into newly constructed stream channel;
- Monitoring of water advancement in channel;
- Cut up and removal of 18-inch stream bypass line.

**Problems and Resolutions**

Problems that occurred during the past week and resolution of these problems included:

- Due to the 18-inch pipe crossing, water could not immediately be released from the coffer dam to the new channel. This was remedied by shutting off the water and moving the pipe to the new channel, allowing the completion of the tie in to the new channel once the water had been released and the pipe had been moved.

**Activities to Project Completion**

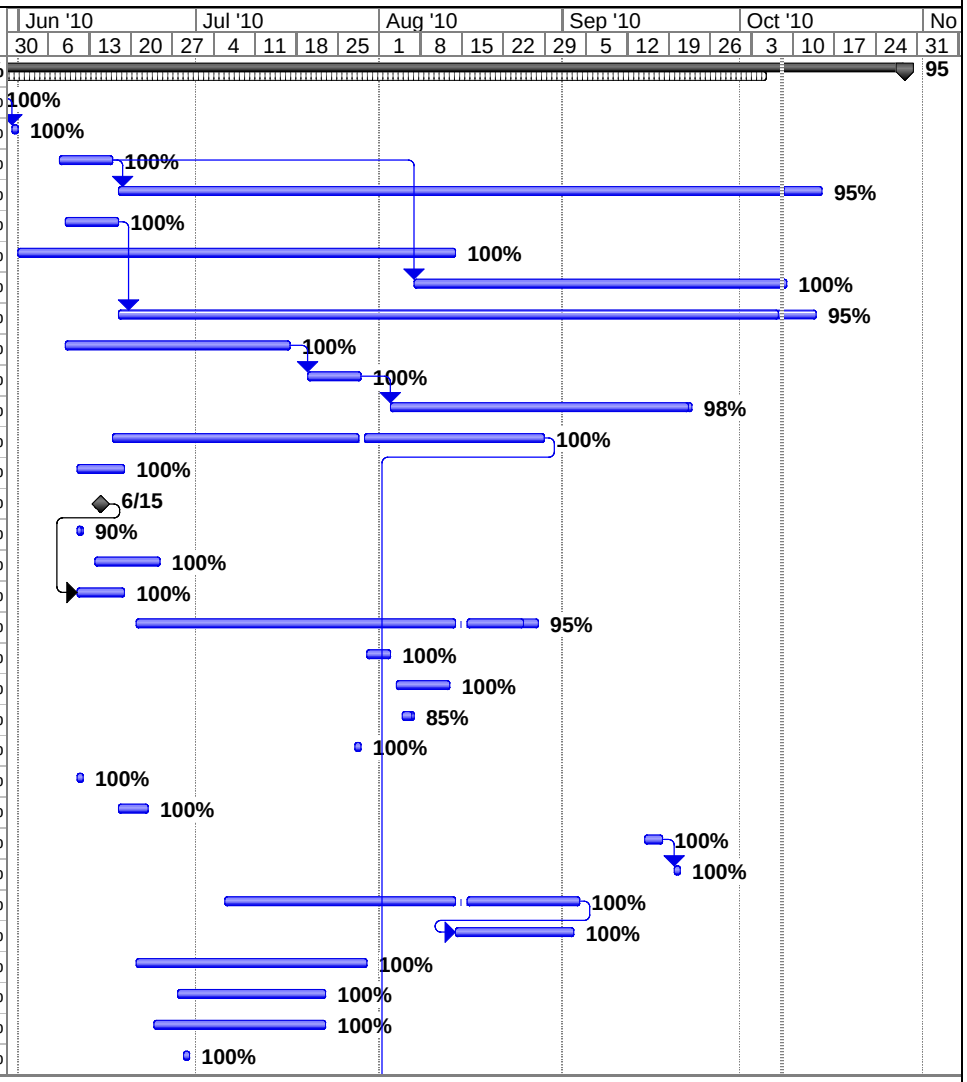
Activities planned to complete the project by about mid-October will include:

- Address punch list items as per Nu-West, GET and CRA;
- Reclamation work;
- Complete work in Dud Hollow;
- Complete placement and compaction of road base;
- As-built surveying;
- Bench construction and ECM placement.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **95%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 100% |
| 5 | Continued SWPPP Inspections/Documentation | 95% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 100% |
| 8 | Road Grading for Material Import | 100% |
| 9 | Construction Dust Suppression | 95% |
| 10 | CQA Oversight | 100% |
| 11 | CQA Oversight | 100% |
| 12 | CQA Oversight | 98% |
| 13 | Quarry and Grade Rip Rap and Borrow | 100% |
| 14 | Grade Areas North and South of Site | 100% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 90% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 100% |
| 19 | SESC/BMP's | 95% |
| 20 | USFS Road Cut | 100% |
| 21 | Import Road Base | 100% |
| 22 | USFS/Site Road Base & Grading | 85% |
| 23 | Compaction Testing | 100% |
| 24 | Surveying | 100% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Sediment Pond Culvert Placement | 100% |
| 27 | Complete Phosphoria Channel to Sed pond | 100% |
| 28 | Ore Haul to Soda Springs | 100% |
| 29 | Clean out Remaining ore in Phosphoria | 100% |
| 30 | Bulk Select Fill Production | 100% |
| 31 | Compacted Fill Placement at Sed Pond | 100% |
| 32 | Compaction Testing | 100% |
| 33 | Surveying | 100% |

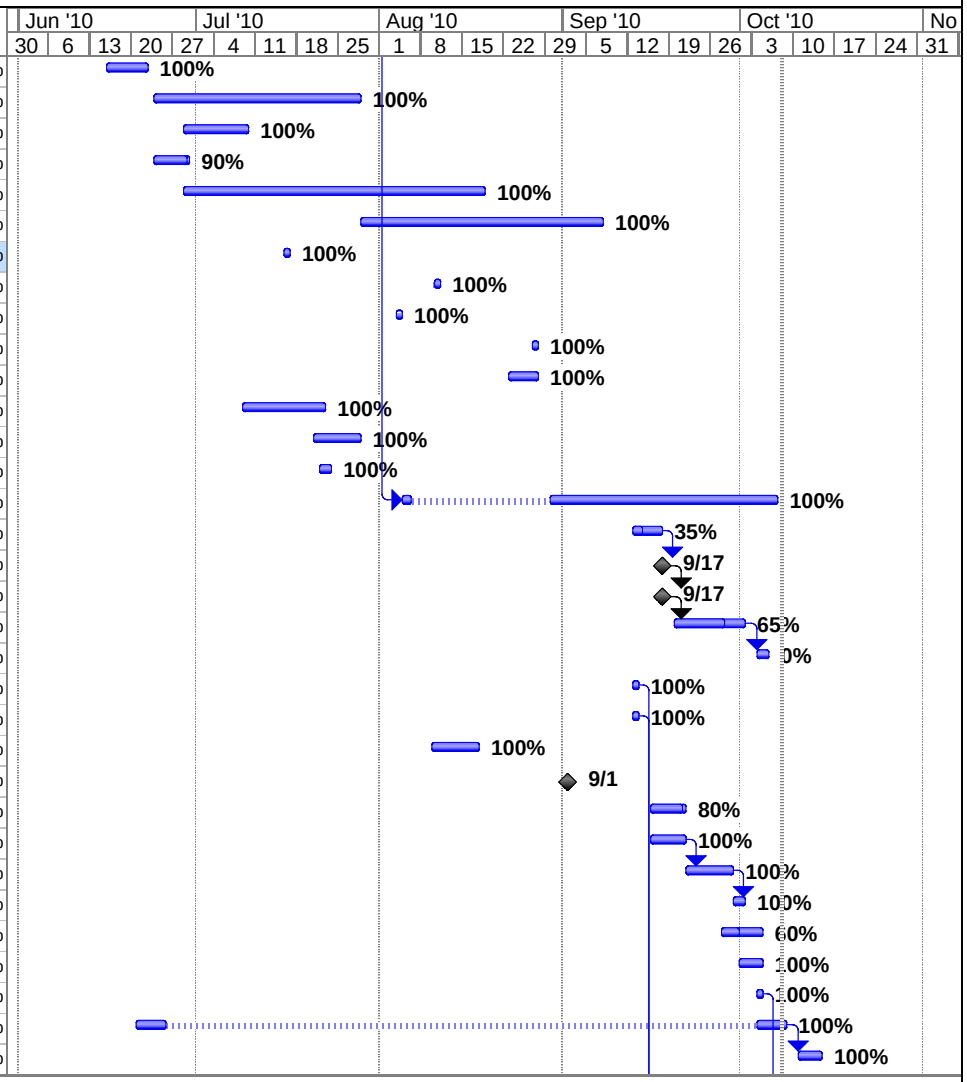



Project: Phase II CMP Bypass Channe
Date: Fri 10/8/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Fence Removal | 100% |
| 35 | Bldg Foundation Removal & Misc Debris | 100% |
| 36 | Grubbing/Prestrip Slag on Channel Excavation Areas | 100% |
| 37 | Improve On-site Roads | 90% |
| 38 | Channel Excavation & Fill Placement | 100% |
| 39 | Septic Tank Removal - Build Containment/React Phosphorus | 100% |
| 40 | Surveying | 100% |
| 41 | Surveying | 100% |
| 42 | Obtain Soil Samples for Nutrient Amendment | 100% |
| 43 | Easement Surveying | 100% |
| 44 | Cover C&D landfill | 100% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | 100% |
| 46 | Import Filter Stone & Stockpile | 100% |
| 47 | Obtain/Testing Geotechnical Samples | 100% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 100% |
| 49 | Place Erosion Control Blankets | 35% |
| 50 | Notify IDWR Prior to Channel Diversion from CMP | 100% |
| 51 | IDWR Inspection | 100% |
| 52 | Prepare Growth Medium and Benches for Reclamation (Topsoil Channel) | 65% |
| 53 | Surveying | 0% |
| 54 | Tank Spring Channel Excavation | 100% |
| 55 | Abandon Tank Spring Drop Inlet | 100% |
| 56 | Bypass System Setup and Cofferdam | 100% |
| 57 | Survey New ROW for Easement Fence Alignment | 100% |
| 58 | Install Fence and Gates | 80% |
| 59 | CMP Abandonment | 100% |
| 60 | CMP Crossings | 100% |
| 61 | Tunnel Abandonment | 100% |
| 62 | Bypass System Removal | 60% |
| 63 | Tank Spring Filter Stone & Rip Rap | 100% |
| 64 | Syncline Spring Filter Stone & Rip Rap | 100% |
| 65 | Culverts | 100% |
| 66 | Finish Rip Rap in Phosphoria | 100% |

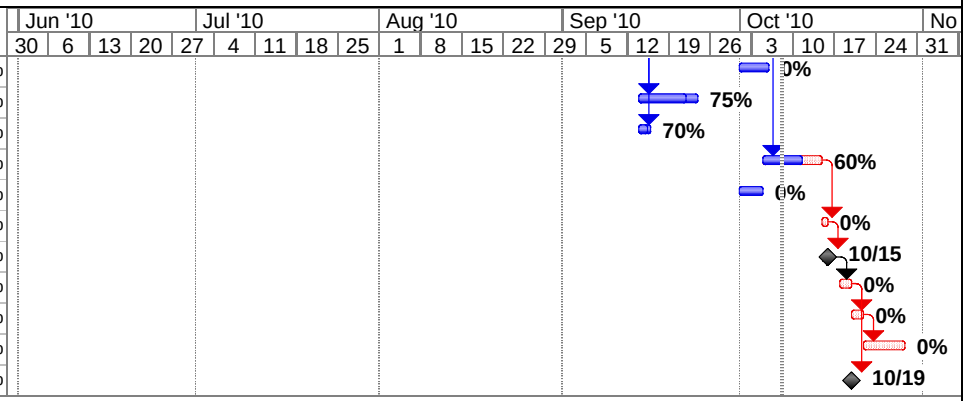



Project: Phase II CMP Bypass Channe
Date: Fri 10/8/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |
| 68 | Hydro seeding (Spoil Areas, Dud Hollow, Phosphoria,Channel,C&D) ) | 75% |
| 69 | Reclaim Borrow Areas | 70% |
| 70 | Hydro seeding & ECB (Channel) | 60% |
| 71 | Surveying | 0% |
| 72 | Stormwater Inspection | 0% |
| 73 | Project Complete | 0% |
| 74 | Demobilization | 0% |
| 75 | Completion Certificate to USACE | 0% |
| 76 | Post Construction Photos to USACE | 0% |
| 77 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Fri 10/8/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

## John Brown

**From:** John S. Brown [strater4@comcast.net]
**Sent:** Tuesday, December 07, 2010 12:18 PM
**To:** strater4@comcast.net
**Subject:** FW: Farmers Georgetown Canyon Remedial Action, Phase II Progress Schedule
**Attachments:** 102110 CF RAP Phase II progress schedule.pdf; DSC04402.jpg; DSC04423.jpg; DSC04421.jpg; DSC04428.jpg; DSC04430.jpg; DSC04434.jpg; DSC04437.jpg; DSC04448.jpg; DSC04450.jpg

---

**From:** John S. Brown [mailto:strater4@comcast.net]
**Sent:** Thursday, October 21, 2010 10:23 PM
**To:** mark.jeffers@deq.idaho.gov; Douglas.Tanner@deq.idaho.gov
**Cc:** mhart@agrium.com; JBWillia@agrium.com; pkos@norwestcorp.com; kritter@norwestcorp.com; cemmons@norwestcorp.com; White, Dan; wbauman@craworld.com; Downing, Matt
**Subject:** Farmers Georgetown Canyon Remedial Action, Phase II Progress Schedule

Mark,

On behalf of Nu-West, please find attached an updated progress schedule for the Central Farmers Georgetown Canyon Remedial Action, Phase II project and pictures obtained within the past 2 weeks of work progress. Current estimate of the project completion is about 99 percent as of October 21, 2010.

**Activities**

Activity highlights over the past 2 weeks include:

- Site channel subgrade survey, as-built and finish grade surveys from Sherbel and Summit Land Surveying;
- Air H&S monitoring;
- Site dust mitigation;
- Daily H&S briefings and work activity/progress meetings;
- SWPPP inspections;
- Continued work on environmental covenant preparation for site;
- Work on vacating the USFS easement and preparing new easement;
- Reclamation and hydro seeding of channel, central spoils, Dud Hollow, west side of channel and east side of channel;
- Hydroseeding of the channel slopes east of the north spoils area;
- Completion of placement of 2B erosion control blankets above benches;
- Completion of type 3 blanket placement above weirs and rip rap;
- Completion of bench construction and slope dressing and tracking of slopes;
- Completion of rip rap placement;
- Completion of site grading and on-site drainages to channel;
- Completion of on-site road construction and compaction;
- Completion of fence installation;
- Placement of rock barricades near Tank Spring slopes;
- Completion of camping site construction on west side of channel;
- Additional BMP placements on road to Phosphoria;
- Decon and demobilization of earth-moving equipment;
- Ground and surface water sampling and surface water flow measurements;

- Monitoring of water advancement in channel;
- Completion of punch list items as per Nu-West, GET and CRA;
- Completed removal of 18-inch stream bypass line;
- Removal of site refuse to county landfill.

**Problems and Resolutions**

Problems that occurred during the past 2 weeks and resolution of these problems included:

- Flow in the newly constructed stream channel reached 95 percent of the entire course within 6 days following opening of the channel, then retreated to approximately station 24+00. Flow rates measured on October 4 were approximately 2.2 cfs and about 1.8 cfs on October 19. Georgetown Creek currently remains dry between channel station 24+00 and Church Hollow. It appears that the creek water is discharging to the alluvium and the bedrock formations beneath the site. The water in the channel is currently stalled above the concealed Wells formation contact. Nu-West is currently evaluating the stream losses and changes in the site water levels.

**Activities to Project Completion**

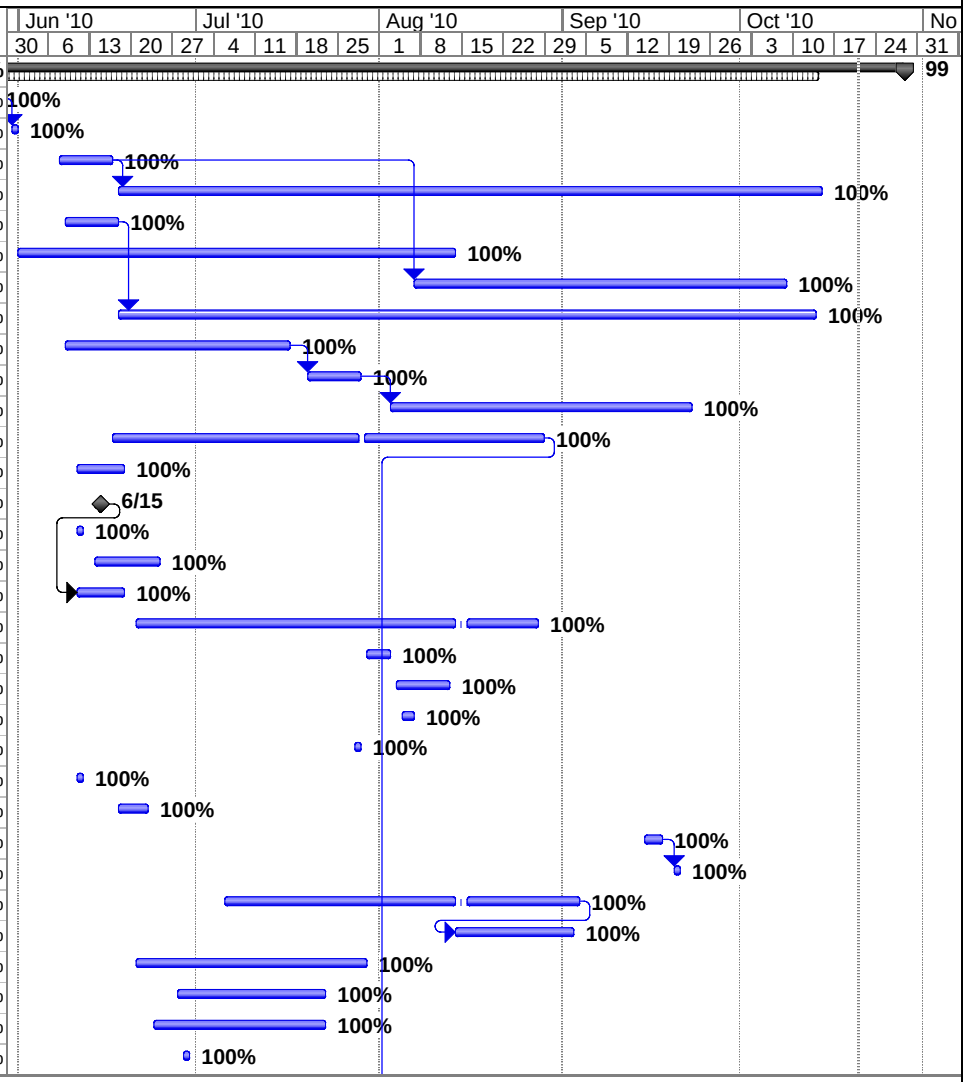
Activities planned to complete the project include:

- Planting of woody species;
- Grating placement on CMP riser in sed pond;
- Demobilization of office trailer and remaining equipment;
- Reclamation of the office trailer and equipment and staging areas.

Please contact me via email if you have any questions regarding this transmittal.
Best Regards,
JB

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 1 | **RAP Phase II CMP Bypass Stream Construction** | **99%** |
| 2 | Notify IDWR | 100% |
| 3 | Notify USACE | 100% |
| 4 | Site Mobilization | 100% |
| 5 | Continued SWPPP Inspections/Documentation | 100% |
| 6 | Install Pump in Well/Storage Tank Setup | 100% |
| 7 | Cty. Dust Suppression - Site and Bottom of Canyon | 100% |
| 8 | Road Grading for Material Import | 100% |
| 9 | Construction Dust Suppression | 100% |
| 10 | CQA Oversight | 100% |
| 11 | CQA Oversight | 100% |
| 12 | CQA Oversight | 100% |
| 13 | Quarry and Grade Rip Rap and Borrow | 100% |
| 14 | Grade Areas North and South of Site | 100% |
| 15 | Construction Kickoff Meeting | 100% |
| 16 | Surveying | 100% |
| 17 | Test Pits | 100% |
| 18 | Grading & Preparation for Fill | 100% |
| 19 | SESC/BMP's | 100% |
| 20 | USFS Road Cut | 100% |
| 21 | Import Road Base | 100% |
| 22 | USFS/Site Road Base & Grading | 100% |
| 23 | Compaction Testing | 100% |
| 24 | Surveying | 100% |
| 25 | Clean out Sediment Pond | 100% |
| 26 | Sediment Pond Culvert Placement | 100% |
| 27 | Complete Phosphoria Channel to Sed pond | 100% |
| 28 | Ore Haul to Soda Springs | 100% |
| 29 | Clean out Remaining ore in Phosphoria | 100% |
| 30 | Bulk Select Fill Production | 100% |
| 31 | Compacted Fill Placement at Sed Pond | 100% |
| 32 | Compaction Testing | 100% |
| 33 | Surveying | 100% |

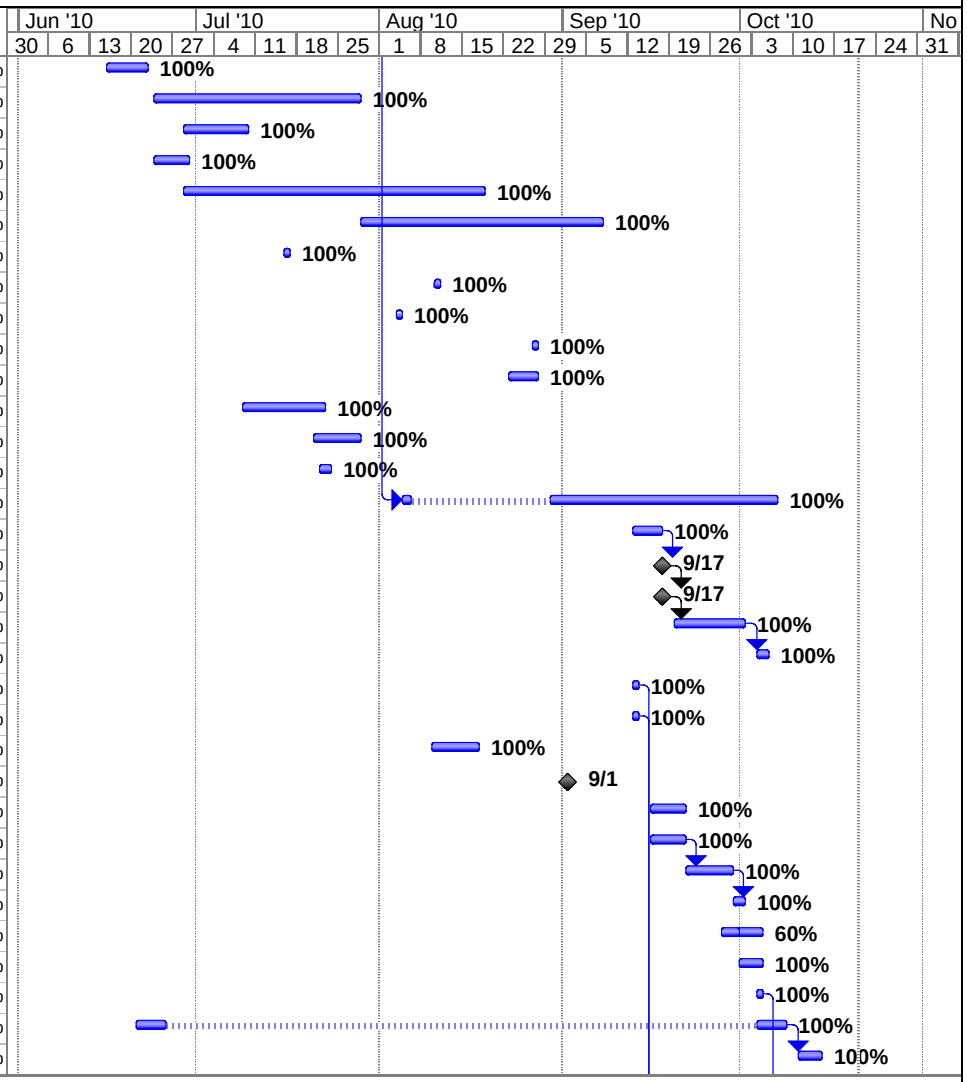



Project: Phase II CMP Bypass Channe
Date: Thu 10/21/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 34 | Fence Removal | 100% |
| 35 | Bldg Foundation Removal & Misc Debris | 100% |
| 36 | Grubbing/Prestrip Slag on Channel Excavation Areas | 100% |
| 37 | Improve On-site Roads | 100% |
| 38 | Channel Excavation & Fill Placement | 100% |
| 39 | Septic Tank Removal - Build Containment/React Phosphorus | 100% |
| 40 | Surveying | 100% |
| 41 | Surveying | 100% |
| 42 | Obtain Soil Samples for Nutrient Amendment | 100% |
| 43 | Easement Surveying | 100% |
| 44 | Cover C&D landfill | 100% |
| 45 | Rip Rap Screening, Sorting, and Stockpiling | 100% |
| 46 | Import Filter Stone & Stockpile | 100% |
| 47 | Obtain/Testing Geotechnical Samples | 100% |
| 48 | Rock Placement - Filter Stone, Weirs, Sills, & Boulders | 100% |
| 49 | Place Erosion Control Blankets | 100% |
| 50 | Notify IDWR Prior to Channel Diversion from CMP | 100% |
| 51 | IDWR Inspection | 100% |
| 52 | Prepare Growth Medium and Benches for Reclamation (Topsoil Channel) | 100% |
| 53 | Surveying | 100% |
| 54 | Tank Spring Channel Excavation | 100% |
| 55 | Abandon Tank Spring Drop Inlet | 100% |
| 56 | Bypass System Setup and Cofferdam | 100% |
| 57 | Survey New ROW for Easement Fence Alignment | 100% |
| 58 | Install Fence and Gates | 100% |
| 59 | CMP Abandonment | 100% |
| 60 | CMP Crossings | 100% |
| 61 | Tunnel Abandonment | 100% |
| 62 | Bypass System Removal | 60% |
| 63 | Tank Spring Filter Stone & Rip Rap | 100% |
| 64 | Syncline Spring Filter Stone & Rip Rap | 100% |
| 65 | Culverts | 100% |
| 66 | Finish Rip Rap in Phosphoria | 100% |

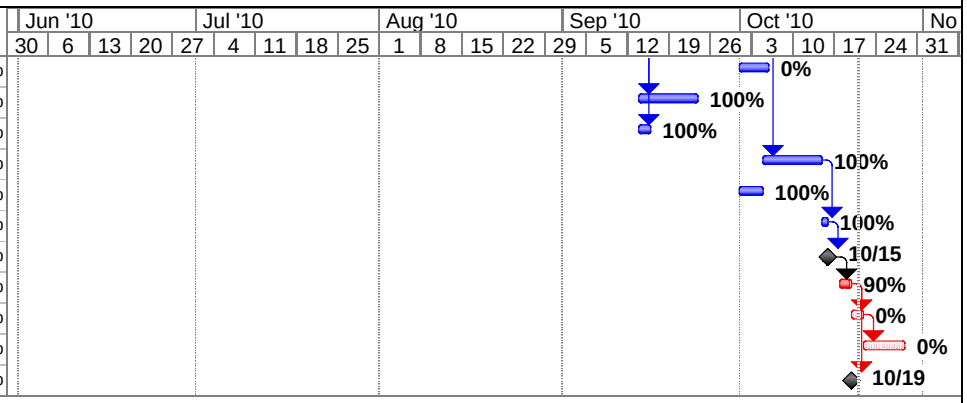



Project: Phase II CMP Bypass Channe
Date: Thu 10/21/10

| | | | | | |
|---|---|---|---|---|---|
| Critical | | Baseline | | Project Summary | |
| Critical Split | | Baseline Split | | External Tasks | |
| Critical Progress | | Baseline Milestone | | External Milestone | |
| Task | | Milestone | | Deadline | |
| Split | | Summary Progress | | | |
| Task Progress | | Summary | | | |

# CENTRAL FARMERS FERTILIZER FACILITY PHASE II REMEDIAL CONSTRUCTION

| ID | Task Name | % Comp. |
|---|---|---|
| 67 | Willow, Alder, Dogwood, & Snowberry Planting | 0% |
| 68 | Hydro seeding (Spoil Areas, Dud Hollow, Phosphoria,Channel,C&D) ) | 100% |
| 69 | Reclaim Borrow Areas | 100% |
| 70 | Hydro seeding & ECB (Channel) | 100% |
| 71 | Surveying | 100% |
| 72 | Stormwater Inspection | 100% |
| 73 | Project Complete | 95% |
| 74 | Demobilization | 90% |
| 75 | Completion Certificate to USACE | 0% |
| 76 | Post Construction Photos to USACE | 0% |
| 77 | Notice of SWPPP Termination to EPA | 0% |




Project: Phase II CMP Bypass Channe
Date: Thu 10/21/10

| | | |
|---|---|---|
| Critical | Baseline | Project Summary |
| Critical Split | Baseline Split | External Tasks |
| Critical Progress | Baseline Milestone | External Milestone |
| Task | Milestone | Deadline |
| Split | Summary Progress | |
| Task Progress | Summary | |

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 6/10/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Rain | Wind: | Variable 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 38-56 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 4 | 39 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA began mobilization to the site today. The CRA crew reviewed the site with JB for the first part of the day and chose a location for the temporary office facility and equipment staging area. William Scotsman delivered the 60X12 office trailer this afternoon, which was blocked and leveled in the area of the former TSP building, north of well GT-5. WSECo delivered the 45kW generator and the D6R dozer as well this afternoon.

Site Visitors:

Larry Leach of CRA onsite from 3:00 PM to 5:00 PM. Russ White and Tom Betty onsite from WSECo to deliver generator. WSECo delivered D6R Dozer at 6:00 PM.

Meetings:

Discussed several topics with JB throughout the day. Discussed ore removal from sed basin; JB indicated that all ore is to be removed and stockpiled to the south for SSP to remove. Willows and brush growing in the basin shall be stripped and stockpiled seperately for future burning. Discussed bypassing Phosphoria Gulch Spring directly into sed basin overflow; JB approved but asked that CRA install measures upstream to ensure sediment was not discharged to GTC (rock check dam, hay bales, etc). Located trailer, tool crib, fuel tank, and equipment staging areas over former TSP building foundation - will use low area to south as temporary sed basin/decant area should it be required; otherwise CRA can utilize the existing sed basin. CRA will work in the sed basin removing ore and constructing the berm through the basin starting next week, and will use left over bulk select fill and other 3" minus screened material for this that remained from Phase 1 work, along with additional material which will be screened from Dud Hollow (as required).

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered slips/trips/falls, lifting procedures, and CRA HASP was reviewed by CRA crew onsite.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 6/11/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Lt Rain | Wind: | Variable 0-5 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-44 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 4 | 42 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA took delivery of a CAT 966 Loader and CAT 336 Excavator at 10:00 AM this morning. The D6 Dozer spent the first half of the day grading south of the clarifier, preparing that area for spoil placement. A berm was created along Georgetown Creek to prevent runoff from the spoil area entering the creek. The excavator worked in the afternoon grubbing trees along the east side of the north spoil area. Temporary chain link fencing was installed around the temporary facility area south of the furnace (420 LF total). A fuel storage area was constructed late in the day for CRA's two (2) 1,000 gallon fuel tanks that will be delivered and filled on Monday, using bulk screened soil left over from last year. Surveyor Scherbel was onsite to locate test pits and the new berm through the sedimentation basin.

Site Visitors:

WSECo delivered the 336 Excavator and 966 Loader at 10:00 AM. Mountain Stated Fence Co delivered 420 LF (35 12X6 panels) of temporary fencing for use around CRA's temporary facilities.

Meetings:

Discussed soil area south of clarifier with JB; JB wants to flatten/process steel and debris south of the clarifier and bury in spoils in that location. CRA shall also flatten slag piles, roots, brush, etc and bury under spoils. CRA is not to cross the property boundary (USFS) to the south of the clarifier while grubbing or spreading spoil material. CRA will widen the access road south of the clarifier, specifically where it crosses the drainage ditch, by installing 20 LF of culvert. This will be east of the monitoring well, creating a split in the road around the well, which will be protected with boulders during construction.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered heavy equipment operation (specifically dozer, loader, and excavator)

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

SSLTD: onsite with a two man crew to stake Test Pit locations along the proposed bypass channel centerline and the centerline of the berm through the sed basin. Crew onsite from 10:00 AM to 4:30 PM.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 6/12/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Rain | Wind: | Variable 0-5 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-48 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 4 | 34 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA completed removing trees along the northeast side of the north spoil area and placing them along the toe of the slope. CRA then moved to the area south of the clarifier and processed steel and debris in that area, crushing all steel flat prior to covering with spoin material from the channel cut. The dozer worked in the afternoon to level piles of slag, roots, trees, and other debris in the southmost spoil area.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered pinch points, slips/trips/falls, and recognizing debris that could cause tire damage.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 6/13/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Shwrs | Wind: | Variable 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 38-49 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 4 | 0 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

No work performed onsite today.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 6/14/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable Light |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 39-64 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 5 | 51.5 | Ace Electric | 1st | 1 | 3 | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 2 | 14 | Wild Blue | 1st | 2 | 4 | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 3 | 9 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA completed preparing the south spoil area, grading slag flat south to the site boundary, covering flattened debris and steel. PPS delivered two (2) 1,000 gallon fuel tanks which were set inside the previously constructed fuel containment area and filled with diesel. PPS connected the tanks and installed a transfer pump. Ace Electric connected the generator to the office trailer this morning, then returned to the site later in the day to connect the fuel tanks, office trailer, and generator to a grounding grid. Wild Blue setup satellite internet service this afternoon as well. CRA excavated silica rock with the dozer and loader from Dud Hollow and spread it in the temporary facility area. CRA began excavation of Test Pit #110 after lunch; the second CMP crossing location. The CMP was not located where the survey indicated it would be located. The pit was excavated several feet on either side of the survey location, to a depth of 18' to 20'. The dozer was used to move excavated material away from the test pit. The pit was barricaded for the night and excavation will continue in the morning. Scherbel was onsite to stake the USFS road re-alignment and topo the channel excavation area.

Site Visitors:

WSECo delivered 4,000 gallon water truck around 10:00 AM.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered excavation safety, excavation of test pits, and spill reporting and response.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

**Surveyor Scherbel** was onsite with a two man crew from 11:30 AM to 4:00 PM to topo the channel area (baseline survey) and set the USFS road alignment points in the two areas where the road is to be shifted west to make roof for the CMP Bypass Channel. **ACE Electric** was onsite from 9:30 AM to 10:30 AM and then again from 3:00 PM to 5:00 PM to hook up temporary power for the fuel tank and office trailer. **PPS** was onsite with a three man crew to set (2) 1,000 gallon fuel tanks, fill them, and install interconnecting piping and pump. **Wild Blue** was onsite with a two man crew to setup satellite internet at the site.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 6/15/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | Variable Light |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 42-65 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 61 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA continued excavating Test Pit 110. The test pit was excavated to elevation 6931.5' (approx) at the deepest, just west of the location shown on the drawings. Excavation continued westward, however the CMP was not located. CRA used the dozer and loader to assist the excavator during excavation.

Site Visitors:

None

Meetings:

Pre-Construction Meeting held at 7:30 am. Attended by JB (GET), James Williams (Agrium), and the CRA crew (Dave Dekker, Matt Downing, Dan White, Jack Johnson, Roy Johnson, and Dan Brooks). Discussed utilitiy strikes/spill containment/reporting procedures, test pit excavation, work area deliniation/signage, SWPPP inspections (GET) / implementation (CRA), water handling, ore removal/coordination with Soda Springs Phosphate, site fence removal, and work schedule in general.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered excavation safety, excavation of test pits, spill reporting and response, equipment inspections, satellite phone usage, and hospital directions (Bear Lake/Motpelier Area).

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 6/16/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Sun/Rain | Wind: | Variable 0-30 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 39-35 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 63 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 2 | 12 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA's work today consisted of continuing to excavate Test Pit #110 at sta. 18+00. Surface elevation when excavation started was 6957.0 CRA excavated down to elevation 6929.0 looking for buried CMP at this depth JB said to stop as depth was below bottom of trench that will be installed.Moved Excavator to Test Pit #103. CRA excavated to depth of about 5 feet and stopped for end of shift. D-6 Dozer continued backfill excavation until end of shift. Loader worked at moving material along road right of way to where Griszzely will be set up to process 3"-soil.

Site Visitors:

Representative from CAT Rental Equipment on site today to deliver fire extinguisher's which they failed to install on equipment when it was delivered. Also electrician came on site today to check if he could have some chain link fence. JB told him that if he stayed on the outside of the fence he could have some.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's were discussed on operation of Dozers. Also CRA's policy on storms and lightning.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Surveyor Scherbel onsite with a two man crew to set slope stakes for channel excavation at 100' stations.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 6/17/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Sun/Snow | Wind: | Variable 0-25 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 39-35 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 7 | 71.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA continued taking down chain link fence that surrounded site; approximately 2200 ft. CAT 336 Excavator worked at excavating seven test pits (focusing on those along the slurry pit) and backfilling with D6R Dozer. Rain for Rent delivered 21,000 gallon Frac Tank for holding water for dust control, which was set near well as was done during Phae I construction last year. Tank, pump, and gernerator will be hooked up within the coming days.

Site Visitors:

Ace Electric on site to look at what tmaterials they needed to hook up pump to generator for pumping water to Frac Tank.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

One of the test pits was located where concrete from an old building was still in place thus CRA was not able to excavate this test pit will need to wait until a Hoe-Ram is brought on site.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's reviewed on Excavator , Loader and Dozer. Also Matt Downing stressed that each employee do an observation STEP and a near miss observation before the end of June.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 6/18/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable 0-15 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 32-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 7 | 65 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA excavated Test Pits #101, #102 and #112 today and worked on placing 12" HDPE ADS pipe from upper bench along the east side of site to overflow pipe in sediment pond to divert Phosphoria Spring flow out of work area. Pulled willows from pond and loaded in 740 Off Road Truck and relocated where JB wanted them placed. Debris from onsite were placed by the loader in spoil area (landfill) east of the office trailer. D6R Dozer worked excavating Test Pit #113 taking area down to 8' in depth so that excavator will be able to reach lowest elevation CRA needs to excavate too. Equipment arriving on site today was as follows: (2) 740 Off Road Trucks, (1) 345 Excavator with bucket, (1) 320 Excavator with hoe ram attachment, and (1) Terex Finley Power Screen with 3"/6" Screen.

Site Visitors:

WSECo and Kimball Equipment onsite to deliver equipment (as described above).

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Where to meet in case of emergency--JSA's on equipment--Also JSA on excavation trenching and spotting of equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Called and spoke with Ace electric on getting pump hooked up to generator and frac tank. He said it would be Monday before parts would arrive.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 6/19/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 79 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

CRA worked at excavating soil along concrete foundation from TP's 106 to 108, in order for 320 Excavator w/ hoe-ram to break concrete next week. Soil removed came from trench excavation and went to south spoil area: 21 loads total with 740 truck. Four (4) loads of concrete were removed and went to spoil area east of office trailer (landfill). CRA worked at excavating Test Pit #113, removing 20 loads with 740 truck going to south spoil area from trench area. CRA also removed willows from holding pond area with 966 Loader and loaded the trucks which hauled willows to the designated area. D6R dozer aided the loader by pushing the willow clumps up the hill to where loader could get at them. In the afternoon 345 Excavator loaded trucks with ore and hauled south of pond area designated by JB. 740 truck hauled 30 loads of ore to stock pile area. Production today : 20 Loads with 740 Truck of soil from trench along concrete wall (600 CY); 20 Loads from Test pit #113 went to south spoil area again (600 CY); 30 Loads of ore from holding pond area to stock pile south of holding pond (900 cy).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's on Off Road Trucks and fueling of diesel equipment and fueling of gas equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 6/20/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | Variable 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 4 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities:

No work performed onsite today. CRA's site superintendant completed timesheets and expense reports for crew, and performed other administrative tasks.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 6/21/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: Variable | 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 93 | Ace Electric | 1st | 1 | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Excavation of ore continued in the sedimentation basin; Jack Johnson operated 336 Excavator which loaded 740 Trucks which were operated by Josh Kincade and Paul Conrad hauling ore from pond to stock pile area south of pond area. Roger Kerber operated D6R Dozer pushing ore to the excavator, also worked leveling south spoil area. Dan Brooks operated 345 Excavator loading 740 Truck operated by Paul Conrad hauling spoil material from test pit #113 to south spoil area. Worked at this for eight hours, then truck switched to ore hauling from the sed basin. Load count today was Code 09 Channel Excavation: 13 loads to spoil area (390 CY); Code 13 Ore Removal: 68 loads of ore to stock pile (2,040 CY). Also CRA had Doug Weaver operating the 320 Excavator with the hoe ram attachment breaking concrete between Channel Sta. 6+00 and sta. 8+00. Roy Johnson moved material for the southmost USFS Road relocation with the loader and stockpiled near the existing site entrance gate.

Site Visitors:

Mechanic from Kimball Equipment / Interstate Crushing and Screening onsite to install screens in Terex Finlay 596 screen.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Brought to the attention of JB that all this ore we are moving out of the holding pond was not listed in our items of work and that he and Dan will have to decide on how this quantity will be paid for.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM reviewed JSA's on operation of heavy equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Ace Electric out to hook up well pump to generator and installed piping to frac tank.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 6/22/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable 0 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 35-65 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 73 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at removal of ore from sedement pond with 336 excavator operated by Jack Johsnon loading 740 off road trucks driven by Josh Kincade and Paul Conrad hauling material to stock pile south of holding pond. Dan Brooks operated 345 excavator loading 740 off road truck hauling material from test pit #113 to south spoil area. Hoe Ram 320 excavator continued to break concrete foundation inside trench location operated by Doug Weaver. In the afternoon Dan Brooks operating 345 excavator loaded 740 off road truck on roadway between pond and stream operated by Paul Conrad hauling materail to spoil area at JB's direction. Test pit 113 pipe was found and marked by GPS to location. Screening of 3"- was started today and operated by Roy Johnson, material will be used for building berm/road through sed basin towards Phosporia Gulch.

Site Visitors:

CAT Mechanic to service equipment

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JAS's on equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 6/23/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | Variable Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 39-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 73 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | 1 | 1 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at excavating soil from road next to sediment pond using 345 excavator operated by Dan Brooks loading 740 off road trucks driven by Josh Kincade and Paul Conrad hauling material to south spoil area. Roger Kerber operated D-6 Dozer leveling material hauled by 740 trucks and also compacting with 563 CAT compactor. Jack Johnson worked with 336 excavator excavting test pit #110 looking for CMP pipe worked all day trying to find pipe excavatin down to a depth of 24' but still have not found CMP pipe. Material was stocked piled adjacent to trench and dozed back into the hole at the end of the shift. Doug Weaver operated water truck keeping haul roads moistened for dust control when he was not operating water truck he operated 320 hoe ram breaking concrete foundations. Roy Johnson helped put in silt fence this morning for approx. two hours. Then Roy fed the Finley vibrating screen with his 966 loade, making 3"- soil for building the road next to sediment pond. Production today with the 740 off road trucks was 107 loads of soil-slag hauled to the south spoil area figuring quanity at 30 yds. per truck load equals 3,210 yds. hauled.

Site Visitors:

Jared S. Bragg of Harper-Leavitt Eng. Inc. was on site today to get samples for doing proctor on 3"- soil.

Meetings:

Spoke with JB on concern of how much concrete there was and asked him if CRA could have a conference call with CRA and the client. The concrete foundations are deeper than what CRA anticpated. He said we could do this tomorrow (Thursday) as the client will be on site then.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Matt Downing held safety meeting at 7 am discussing JSA's of equipment. Also discussed about putting up signage for the project--No Trespassing, Truck Traffic, etc. Made sure our air monitoring equipment was calibrated and ready to go. Ran GPS for cordinances of locations

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Jared S. Bragg of Harper-Leavitt Eng. Inc. was on site today to get samples for doing proctor on 3"- soil.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 6/24/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: Variable | 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 102.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA 's work today consisted of excavation of road along sediment pond. Dan Brooks operated 345 excavator loading 740 off road trucks driven by Paul Conrad and Josh Kincade. hauling soil to south spoil area. Completed excavation on Test Pit #110 and found CMP pipe. Surveyed top of pipe for location with GPS then backfilled. Operator working on TP's was Jack Johnson with the 336 excavator. At noon Jack Johnson switched to excavate along concrete wall and Josh Kincade drove 740 off road truck to haul soil and concrete to spoil pile east of trailer. Doug Weaver worked today operating 320 excavator with hoe ram breaking concrete foundations. Roy Johnson ran loader feeding vibrating screening 3"minus material. Jeff Karp drove water truck and operated 563 sheepsfoot compactor on spoil area. Roger Kerber operating the D6R dozer, grading the spoil areas from the material that the 740 off road trucks delivered. Production for the day was 46 loads from sediment pond road. 6 loads of spoil from along foundation and 4 loads of concrete from foundation. Also had about 600' of silt fence installed.

Site Visitors:

Mitch Hart with Nu-West Industries here for site visit.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Reviewed air monitor PH3, HCN, Dust Monitor, JSA's on equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 6/25/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: Variable | 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 102.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at excavating soil from sediment pond road. Dan Brooks operated 345 excavator and Paul Conrad drove 740 off road truck hauling material to south spoil area. Roy Johnson operated screening of 3"- material snd operated 966 loader to feed screener. Jack Johnson excavated soil along foundations, loaded 740 off road truck driven by Josh Kincade hauling material to spoil area east of office trailer. Doug Weaver operated 320 excavator with hoe ram attachment, breaking concrete foundations. Roger Kerber worked with the D6 Dozer leveling spoil area and pushing down slope material to feed loader and screen. Jeff Carp operated water truck and 563 Compactor. At 11:30 Dan Brooks and Paul Conrad completed removal of sediment pond road and started loading stockpiled material from Test Pit #113 hauling to south waste area. This area was completed and started backfilling of sediment pond key way with 3"- material Surveyor from Scherbel was here from 10:30 to 3:00 and did cross section of road area and set grade stakes for toe of slope to rebuild sediment road. Production for the day was: 38 loads from sediment pond road excavation under Phase 09, 24 loads under Phase 09, 7 loads of concrete under Phase 03.

Site Visitors:

Rain for Rent delivered 4" diesel trash pump and pipe (2000 LF) for general site dewatering.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Reviewed air monitor PH3, HCN, Dust Monitor, JSA's on equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Surveyor Scherbel on site today with one man crew from 10:30 AM to 3:00 PM doing cross section of road area and setting grade stakes for toe of slope to rebuild sediment road.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 6/26/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: Variable | 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 57-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 79.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA day's activities today were as follows: Dan Brooks operated 345 excavator loading 740 off road truck operated by Paul Conrad hauling 3"- material to road that runs along sediment pond. D-6 Dozer operated by Roger Kerber leveled the material dumped by 740 off road trucks. Water truck driven by Jeff Karp kept dust under control and operated 563 Compactor on material being placed on road along sediment pond. Jack Johnson operated 336 Excavator, excavating material along foundation with Josh Kindcade driving 740 off road truck hauling soil to waste area east of office trailer. Doug Weaver operated 320 excavator with hoe ram attachment breaking foundations within channed alignment. Roy Johnson opeated 966 Loader feeding Finley Screen making 3"- material for sediment pond road. Production today: 13 loads of 3"- material to sediment pond road; 15 loads of material from channel went to south spoil area; 18 loads of material from along concrete foundations to east spoil area; 2 loads of concrete to east spoil area.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussion by Dan Brooks to make sure to lower buckets and blades to the ground when getting off of machines.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 6/27/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable 0-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 0 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 6/28/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable 0-5 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 35-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 104 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 2 | 18 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at building sediment road along detention pond. Dan Brooks operator of 345 excavator loaded 740 off road truck driven by Paul Conrad hauling 3"- material to sediment pond road. Roger Kerber operating the D-6 Dozer leveled material brought by the 740 off road truck to build the sediment pond road. Roy Johnson screened 3"- material with the Finley screen bringing material with the 966 loader to feed the screen. Jack Johnson operating the 336 excavator loaded the 740 off road truck driven by Josh Kincade with spoil material from along concrete fondations taking material to the east spoil area (east of the office trailer). Doug Weaver operated 320 excavator with the hoe ram attachment breaking concrete foundations. At lunch time Dan Brooks operating the 345 excavator, started excavation of channel at sta. 25+00 loading the 740 off road truck driven by Paul Conrad who hauled the material to the south waste area. Roger Kerber with the D-6 dozer also changed locations at noon moving to the south spoil area and leveled soil brought by the 740 off road truck. The 563 compactor was operated by Josh Kincade after his truck had broke down

Production for the day: 3"- road base to the sidement pond road 17 loads. Excavation of channel material to south spoil area 55 loads. 12 loads from along concrete foundations to the east spoil area.

Site Visitors:

Mechanic from CAT on site to do repair on 740 off road truck hyd. Line. Repair 320 Hoe Ram, 336 Air Conditioning, D-6 exhaust stack

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

740 off road truck driven by Josh Kincade at 1:30 blew a hyd. Line was down for the rest of the shift which was four hours. Hoe ram operated by Doug Weaver broke hammer bit on the concrete foundations at 4:00 pm--was down for the rest of the shift. D6 Dozer operated by Roger Kerber was down for one hour to replace exhuast pipe which had cracked off at the clamp above the muffler.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's on equipment and reminder to do our STEP program.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Surveyors on site to re-set slope stakes along the forest service road that were knocked out by vehicle traffic.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 6/29/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | Variable 0-5 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 104 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA excavated channel with 345 excavator, operated by Dan Brooks loading 740 off road truck driven by Paul Conrad hauling soil material to south spoil area. Material excavated was taken from sta 25+00 to sta. 23+00. Roger Kerber operated D-6 dozer leveling spoil area. Josh Kencaid operated 563 compactor on the waste area. Jack Johnson operated 336 excavator feeding screen for 3"- material. Roy Johnosn worked romoving rocks away from the work area and from around the screen. At 10:00 am mechanic had Josh Kincade's 740 off road truck repaired and he went back to driving his truck hauling material from Dan Brook's excavator to south spoil area. Doug Weaver ran 563 compactor from 10:00 am to the end of the shift prior to that he serviced equipment, fueled generators, checked fire extingushers on equipment, and greased his 320 excavator. Jeff Karp drove the water truck keeping dust under control on the job site. Production for today: 82 truck loads of waste material from main channel that went to south spoil area (under Code 09) 21 loads of 3" minus material that went to the sediment pond road (under Code 13).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

The 320 excavator is still down due to broken hoe ram bit--bit should be here in the morning for repair.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's on all equipment that we are operating. Also spoke not to use equipment improper like prying concrete with hoe ram bit.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sub-contractor for new site fence (Ken Daniels of Rock MTN Fencing) arrived last evening after shift was over for the day. Matt Downing met with him and visited two new locations for site fencing.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 6/30/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | Variable 10-20 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 60-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 103.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked on excavation of the main channel from Sta. 26+00 to 22+00. Dan Brooks operated the 345 excavator loading 740 off road trucks with material from channel, driven by Paul Conrad and Josh Kincade. Roger Kerber operated the D6R dozer leveling material on the south spoil area. Doug Weaver operated 563 compactor on the spoil area compacting same. By the noon hour, mechanic repaired his 320 excavator w/ hammer and Doug went back to breaking concrete foundations near the slurry pit. Jeff Karp drove water truck making sure dust levels remained acceptable periodically. Jack Johnson operated the 336 excavator feeding screen to make 3" minus material, while Roy Johnson operated 966 loader removing rocks from around screen and mixing wet material with dry to put through the screen. One hour of the day was spent placing one additional lift (third lift) of 3" minus material on the sedimentation road, using the 345 excavator, both 740 off road trucks, D6R dozer, and the 563 compactor along with their operators. Production: 111 loads from the channel to the south spoil area (Code 09); 13 loads of 3" minus to the road along the sedimentation pond (Code 13).

Site Visitors:

Two salesmen from CAT (Russ White & Tom Betty) were out today to verify what equipment is to be shipped to the site next week.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

The 320 excavator hoe ram down for 1/2 day until repaired by mechanic.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's on equipment also fueling, spotting of equipment. Watch out for traffic on forrest service road cutting through our work area.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Mechanic from WSECo (CAT) on site to finish work on hammer attachment on 320 Excavator.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 7/1/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 104 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked on excavation of channel today and encountered an old septic tank vault. Material from within was relocated to the east land fill, per JB, where concrete is being placed. After a short while, JB indicated that some of the material contained phosphorous and needed to be contained within its own area using berms. Roger Kerber leveled material on the east spoil area and built impoundment with the D6R dozer, and the 740 Off road trucks were driven by Paul Conrad and Josh Kincade. Jeff Karp drove the water truck to control dust on the site as needed throughout the day. Jack Johnson operated the 336 excavator feeding the screen making 3" minus material for the road along the sedimentation pond. Roy Johnson operated the 966 loader mixing dry material with some wet material to go through the screen and also picked up over sized rock and kept area clean around the screen. In the afternoon 3" minus material was placed on the road along sedimentation pond with Dan Brooks operating 345 excavator loading the 740 off road trucks hauling material to the road. Roger Kerber operating the D6R dozer leveled the material on the road. Jeff Karp operated the 563 compactor and water truck, wetting and compacting the material on the road.
Production today was: 44 loads to south spoil area, Code 09; 15 loads of 3"- to sedimentation pond road, Code 13; 10 loads of phosphorous material to the east impoundment, Code 11; 17 loads of concrete to the east spoil area, Code 03.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Constructed a soil impoundment/berm area because of the phosphorous material discovered inside old septic---this will need to be addressed later, likely under Code 11 - UST Removal

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's on heavy equipment operation.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 7/2/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | Variable |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 47-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 12 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today - crew off for July 4 holiday. Jack Johnson onsite to provide site security from 8:00 am to 6:00 pm, as requested by JB and Mitch Hart to monitor area where septic tank was discovered containing phosphorous. Matt Downing checked on the site periodically outside of this time window. Dave Dekker completing time and expense reports for crew for submission prior to the holiday.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 7/3/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | Variable |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 48-76 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 12 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today - crew off for July 4 holiday. Doug Weaver onsite to provide site security from 8:00 am to 6:00 pm, as requested by JB and Mitch Hart to monitor area where septic tank was discovered containing phosphorous. Matt Downing checked on the site periodically outside of this time window.

Site Visitors:

WSECo delivered D6N LGP dozer to the site.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 7/4/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 51-74 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 12 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today - crew off for July 4 holiday. Jack Johnson onsite to provide site security from 8:00 am to 6:00 pm, as requested by JB and Mitch Hart to monitor area where septic tank was discovered containing phosphorous. Matt Downing checked on the site periodically outside of this time window.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 7/5/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Variable |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 12 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today - crew off for July 4 holiday. Doug Weaver onsite to provide site security from 8:00 am to 6:00 pm, as requested by JB and Mitch Hart to monitor area where septic tank was discovered containing phosphorous. Matt Downing checked on the site periodically outside of this time window.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 7/6/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 32-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 12 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA excavated 3" minus material from Dud Hollow using the D6R Dozer operated by Jack Johnson and the D6K Dozer operated by Doug Weaver. Material was removed from the ATV trail down, removing a portion of the roadway, which was relocated higher up the slope. Caution tape was put up to warn people of the road change. Nathan Klueter started onsite today, working as a signal man for traffic coming through to alert operators to stop for traffic due to the falling rock hazard. WSECo mobilized 730 haul truck at the end of the day, which will sit idle and not be billed for the next week.

Site Visitors:

Sales Representatve (Jim Betty) from WSECo CAT equipment out to talk with Dan White about concrete crusher. Service representative from WSECo out to change the oil and filter in the 336 excavator.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed heavy equipment operation on steep slopes, falling rock hazards, and communication. Nathan Klueter received site specific orientation this afternoon upon arriving to the site.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 7/7/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Lt Breeze |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 32-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 108.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA resumed work full time after the 4th of July holiday. 345 excavator was operated by Paul Conrad excavating concrete of old office building fondation, loading concrete into 740 off road truck driven by Josh Kincade hauling material to east spoil area. Jack Johnson operated the 336 excavator loading 740 off road truck driven by Doug Weaver, hauling material coming from along foundations to the east spoil area. Roy Johsnon fed the Finley screen with the 966 loader making 3" minus material. In the afternoon Paul Conrad operated 345 excavator loading 740 off road trucks with 3"- material to place a lift on sedementation pond road. Doug Weaver and Josh Kincade drove the 740 off road trucks. This work item took approximately 1 1/2 hours. Material was compacted and density tests taken with compaction tests approved. Jeff Karp drove the water truck for dust control on site. Along with Jeff was Nate Klueter who is training as a new employee to drive truck. Concrete loads hauled to east spoil area were 11 loads (Code 03); 3" minus material hauled to road along sedementation pond: 14 loads (Code 13) Soil material excavated from along concrete foundations: 50 loads (Code 09).

Site Visitors:

Dan White of CRA was on site yesterday and today.

Meetings:

Spoke with JB regarding sed pond berm - elevation on AutoCAD DWG indicated a constant 6943 elevation for the road, which was the same elevation as the overflow pipe. In an effort to save screened material, will build to elevation 6944 as mush as possible, then create a gradual ramp up to the north end. Also discussed septic tank removal - may need to remove contents and then tank as weight is estimated at over 80 tons - JB will check with the project team and get back to CRA on that.

Production Delays, Change Orders, and/or Extra Work Items:

Production Delay--Water truck was down for two hours. 320 Hoe Ram was idle due to operator taking one extra day of vacation. 730 Off road truck was delivered last evening after quitting time and has not been put into work as yet.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's on all equipment used. Employees returning to work after holiday are probably tired so keep alert of working conditions.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

HLE onsite to perform density tests on 3" minus fill for sed pond berm - all tests passed.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 7/8/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-76 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 120 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked with 345 excavator operated by Dan Brooks excavating soil from along concrete foundations at sta. 15+00 to sta 17+00. Josh Kincaid and Paul Conrad drove 740 off road trucks hauling material to south spoil area. Roger Kerber operating D6K leveled material on south spoil area. Jeff Karp operated the 563 compactor on the south spoil area and on the road along the sed pond. Dan Brooks on the 345 excavator loaded 3" minus material for the road along the sed pond. 740 off road trucks hauled material from the screen to the sed pond road and Roger Kerber leveled the material. Nathan Klueter drove the water truck today controlling dust on the site. Jack Johnson operated the 336 excavator, excavating material from around foundations and Paul Conrad hauled material to south spoil area. Doug Weaver operated the 320 Hoe Ram Excavator breaking concrete around sta. 18+00. Roy Johnson operated 966 loader feeding screen to make 3" minus material. Production today was: 15 loads of 3" minus material placed on sed pond berm (Code 13); 15 loads of concrete to the east spoil area (Code 03); 70 loads of material from along footings to the south spoil area (Code 09)

Site Visitors:

Two mechanics from CAT on site - one working on repairing started on water truck and other mechanic was installing shear on 336 excavator.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Water Truck down for approx. two hours while mechanic replaced starter.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Matt Downing spoke on use of ladders on the project, JSA's on off road trucks, dust control and buddy system for fueling.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Harper-Leavitt Engineering was on site yesterday and today to do density testing, all tests exceeded 95% relative compaction.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 7/9/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Winds 15-20 afternoon |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 133.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 2 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked removing soil and concrete foundations hauling to the east spoil area. Dan Brooks operating 345 excavator, loaded 740 off road trucks driven by Josh Kincade and Paul Conrad hauling broken concrete to the east spoil area and soil to the south spoil area. Roy Johnson operated the 966 loader and fed the screen to make 3" minus material for road along the sedementation pond. Jack Johnson operated the 336 excavator loading 730 off road truck with concrete and debris taken to the east spoil area. Jeff Karp drove the 730 off road truck hauling the concrete. Doug Weaver operated the 320 hoe ram breking the concrete of the foundations. Nathan Klueter drove the water truck to control dust on the site. Roger Kerber operating D6K dozer to grade spoil material and 3" minus fill. Paul Conrod also grading debris in landfill and helping grade berm in sedimentation pond. Dan White onsite surveying and running sheepsfoot compactor. Dan Gibson (Operator) driving to site from home in Denver, CO - will begin work tomorrow.
Production today: 48 loads of soil from channel went to south spoil area (Code 09), 39 loads of concrete to the east spoil area from the foundations (Code 03), 22 loads of 3" minus to the road next to the sedementation pond (Code 13).

Site Visitors:

Dan White of CRA on site today. WSECo mechanic out to install shear on the 336 excavator and to install starter on water truck. PPS onsite to setup 300 gallon gravity feed diesel tank for on road diesel storage (for use in water truck).

Meetings:

Sed pond berm to be set at elevation 6944.5' at top of road as per JB and Paul Kos (subgrade at 6944.0'). CRA to build up south end of pond from current elevation of 6942 (SW corner) using 3" minus screened fill. Discharge riser to remain at 6943.0'. Discussed south spoil area with JB; area should, in general, slope to keep 90% of runoff from area onsite, draining into south clarifier ditch. CRA to maintain 15' - 20' wide terrace at current elevation and start new lifts in from edge - terrace to run from SE corner W and N to south clarifier ditch. In general, spoil pile shall look as natural as possible.

Production Delays, Change Orders, and/or Extra Work Items:

Excavator idle for five hours while mechanic started to install shear. Shear head installed on the machine, but mechanic did not have all of the proper hydraulic lines and will return with them tomorrow. Water Truck down for three hours while mechanic installed starter.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed air monitoring and JSA's on equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

HLE onsite to perform density tests on 5th lift of sed pond berm from 2:15 PM to 3:00 PM - all tests passed (>95% relative compaction).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 7/10/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 15-20 mph |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 134.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at excavating the soil and concrete from the channel area. Dan Brooks operating the 345 excavator, loading both 740 and 730 off road trucks, hauling material to the east spoil area with concrete, and soil material went to the south spoil area. Josh Kincade and Dan Gibson drove the 740 off road trucks while Jeff Karp drove the 730 off road truck and the 563 compactor. Jeff also helped connect together the 4" pipe to the 4" pump, which pumped water from concrete foundations to the sedementation pond. Jack Johsnon operating the D6R pushed material off the hill for screening 3" minus material. Roy Johnson operated 966 loader picking up rocks for making rip rap and Nate watched the USFS road to ensure no cars/ATVs were struck by falling debris. Paul Conrod operated 336 excavator with the shear breaking concrete foundations once the shear was operational late in the day. Doug Weaver operated the 320 excavator with breaker removing concrete foundations. Roger Kerber operating D6K leveling material going to east and south spoil areas. Nate Klueter drove the water truck which blew a tire and was down for seven hours waiting for tire repair service. Nate and Roy Johnson also helped put together the pipe for the 4" pump.

Production for today: 52 loads of material going to the south spoil area with the 740 off road trucks (Code 09); 22 loads to the south spoil area with the 730 off road truck (Code 09); 8 loads of concrete with the 740 off road truck going to the east spoil area (Code 03); 3 loads with the 730 off road truck going to the east spoil area (Code 03).

Site Visitors:

Dan White of CRA on site today. WSECo onsite to complete installation of processing shear on 336 Excavator from 11:45 AM to 3:00 PM. Goodyear (Wingfoot) onsite to repair tire on water truck from 7:00 PM to 8:00 PM.

Meetings

None

Production Delays, Change Orders, and/or Extra Work Items:

336 Excavator down for shear installation until 3:00 PM. Water Truck down with blown tire after 10:00 AM (tire damaged while watering south spoil area).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Safety check on extention cords, ropes, cables and also with shear - watch for rebar that operator does not hook hyd, lines on the rebar.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 7/11/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | Variable |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 55-82 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 0 | 0 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today.

Site Visitors:

None

Meetings

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 7/12/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Breezy |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 2 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked consisted of excavation of concrete and loading into 740 off road trucks hauling to east spoil area. Dan Brooks operated 345 excavator loading trucks and Josh Kincade, Dan Gibson, and Jeff Karp drove trucks hauling to east spoil area. Jack Johnson operated D6R dozer on east spoil area leveling concrete and soil. Paul Conrad operated 336 shear crushing concrete for excavator. Roy Johnson operated 966 loader feeding screen to make 3" minus. Nate Klueter drove water truck controling dust on roads around the site. Roger Kerber operated D6K dozer shaping slopes of trench excavation. Doug Weaver operated the 563 compactor, compacting the south spoil area and road next to the sedementation pond.

Production today: 57 loads of concrete with the 740 off road trucks (Code 03); 31 loads of concrete with the 730 off road truck (Code 03).

Site Visitors:

WSECo mechanic to work on 320 hoe ram. Picked up hoe ram and took back to shop to repair hydralic leak.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Excavator with hammer attachment down for the day due to hydralic leak - unit returned to Pocatello for repair by WSECo.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Matt discussed protecting skin from sun using sun screen. Incident today--Nate Kluiter when closing the door of the water truck went to push door shut as it did not lock on the first attempt, struck door with palm of hand leaving a quarter size bruise (No break in skin). Matt Downing and Dave Dekker to fill out report tomorrow; CRA incident hotline was promptly notified.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 7/13/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Windy; gusts to 50 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked today on concrete removal from trench and hauled to east spoil area. Jack Johnson operated the 324 excavator (mobilized to take the place of the 336 Excavator which temporarily has a shear attachement installed) loading concrete into the 730 off road truck driven by Jeff Karp. C&D debris transported to the east spoil area (landfill). Dan Brooks operated the 345 excavator loading 3" minus material into the 740 off road trucks driven by Josh Kincade and Dan Gibson taking the material to the road/berm next to the sed pond. Josh Kincade and Dan Gibson also hauled concrete to the east spoil area from the concrete foundations later in the day. Doug Weaver operated the D6R dozer leveling the C&D landfill area where concrete was dumped throughout the day. Roger Kerber operated D6K placing and grading the 3" minus material on the road/berm. Dan Brooks operated 345 excavator pulling concrete foundations for the shear to break up. Roy Johnson operated 966 loader feeding screener making 3" minus material. Nate Klueter drove the water truck to maintain dust control.

Production today: 30 loads of concrete to the east spoil area with the 730 truck (Code 03); 45 loads of 3" minus material with 740 trucks (Code 13), 44 loads of concrete with 740 trucks (Code 03),

Site Visitors:

Tire repairman from Wingfoot Commerical Tire Systems, LLC

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

320 Excavator w/ Hammer attachment returned (yesterday) to WSECo yard in Pocatello. Will repair today and return to site tomorrow, or replace machine with a different unit.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Reviewed JSA for water truck operation.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

No sub contractors on site today.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 7/14/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 121 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued working at breaking concrete foundations in trench alinement. Dan Brooks operating 345 excavator and Jack Johnson operating 324D excavator loaded both 740 and the 730 off road trucks, driven by Josh Kencade, Doug Weaver, and Jeff Karp. Concrete debris hauled to east spoil area. Dan Gibson operated D6R dozer leveling concrete in spoil area. Roy Johnson operated 966 loader feeding screen to make 3" minus material for sed pond road, while Roger Kerber operated D6K dozer working slopes on channel and south spoil area. Paul Conrod operated 336 excavator with shear attachment crushing concrete into small enough pieces to handle. Nate Klueter drove the water truck controling dust on site. Excavator and trucks also continued channel cut, hauling material to the south spoil area where it was leveled and compacted.

Production today: 49 (16 - 730 loads / 33 - 740 loads) loads of concrete to east landfill (Code 03); 39 (13 - 730 loads / 26 - 740 loads) loads of spoil material to south spoil area (Code 09).

Site Visitors:

Tom Bettt with WSECo sales was on site with mechanic to get numbers off 320 excavator for replacement hammer attachment.

Meetings:

No meetings today.

Production Delays, Change Orders, and/or Extra Work Items:

CAT 320 excavator with hammer is still down waiting for parts/replacement hammer.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Watch for kids along Georgetown Canyon / Stringtown Road. Reviewed JSA's for Loader, Excavators Off-Road trucks, Dust Control, Diesel fueling, and spotting trucks. Near Miss in the afternon involving water truck operator Nate Klueter. Truck was backing onto the ramp to the south spoil area. Operator failed to use both mirrors when backing and almost ran into drainage ditch, nearly tipping the truck over. Incident was reported to the appro[piate parties and a detailed report will be prepared by the HSO.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 7/15/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 47-74 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to crush concrete in channel. Paul Conrod operated 336 excavater with shear attachment crushing foundations. Jack Johnson operated the 324 excavator loading the 740 off road truck driven by Doug Weaver, hauling concrete material to east spoil area. Dan Brooks operated 345 excavator loading 740 and 730 off road trucks with concrete until noon, then switched to excavation of channel material going to south spoil area. Roy Johnson and Josh Kincade drove 740 and 730 trucks hauling from the channel cut. Dan Gibson operated D6R dozer leveling spoil area and dozing material off hill to make 3" minus material. Jeff Karp drove water truck to control dust. Roger Kerber operated D6K dozer leveling south spoil area and shaping channel slopes. David Allen operated 563 compactor on south spoil area.

Production today: 66 loads (33 - 730 Truck / 33 - 740 Truck) to the south spoil area (Code 09); 41 loads (11 - 730 Truck / 30 - 740 Truck) of concrete to the east spoil area (Code 03).

Site Visitors:

Mechanic from WSECo was on site to repair windshield on 320 excavator with hammer attachement which was broken by flying peace of concrete. Wayne Bauman, Project Manager with CRA on site today for visit.

Meetings:

No meetings today.

Production Delays, Change Orders, and/or Extra Work Items:

CAT 320 excavator with hammer attachement down for the day. WSECo mechanic onsite late in the day to install new hammer attachement - machine back in operation.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Make sure and wash hands frequently, especially before eating and at the end of shift, as heavy metals (vanadium and chromium) are found in the site soils.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 7/16/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 120.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at breaking and removal of concrete from trench today. Paul Conrod operated 320 excavator with hammer attachment while Jack Johnson operated the 324 excavator loading out 740 off road truck with concrete and debris from channel, which was hauled to east spoil area. Doug Weaver operated the 740 off road truck hauling to the east spoil area. Dan Brooks operated 345 excavator loading 740 and 730 trucks with material from channel, cut between stations 26+00 to 24+00. Trucks were driven by Josh Kincade and David Allen taking material to south spoil area. Dan Gibson operating D6R dozer leveling material on south spoil area. Roy Johnson operated 966 loader feeding screen making 3" minus material for road along sed pond. Roger Kerber operated D6K gradeing slopes of channel and shaping spoil area's as required. Jeff Karp drove water truck to keep dust under control on site.

Production today: 61 loads (740 trucks) and 20 loads (730 truck) hauled to south spoil area (Code 09); 17 loads of concrete (740 truck) hauled to east spoil area / C&D Landfill (Code 03).

Site Visitors:

Mechanic from WSECo onsite to remove pin from 336 excavator with shear attachement that broke this morning. Mitch Hart from Nu-West / Agrium onsite for site visit.

Meetings:

No meetings today.

Production Delays, Change Orders, and/or Extra Work Items:

The 320 excavator with hammer attachement returned to operating this afternoon after a new hammer attachement was mobilized and installed. CAT 336 excavator with shear down mid morning due to broken pivot pin on jaws of shear. Pin appeared to have been cracked for a while as the face of the break was 90-95 percent covered in rust.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered heat stress and heat stroke. Also went through heavy equiment JSA highlights with crew.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 7/17/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 118 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work schedule consisted of excavation of trench at station 26+00 to 24+00; Dan Brooks operated 345 excavator loading 740 truck driven by Josh Kincade and 730 truck driven by David Allen, both hauling material to south spoil area, where Dan Gibson operated D6R dozer leveling and grading 1-foot lifts. Roger Kerber on D6K dozer worked at shaping slopes on channel and maintaining haul roads. Jack Johnson operated 324D excavator loading 740 truck with concrete, driven by Doug Weaver, hauling to east spoil area. Paul Conrod operated 320 Excavator with hammer braking concrete foundations into manageable pieces. Roy Johnson operated 966 loader feeding screen making 3" minus material for road along sed pond. Jeff Karp drove water controlling dust on site.

Production today: 60 loads (740 truck) of spoil material going from trench to the south spoil area (Code 09); 40 loads (730 truck) going from the trench to the south spoil area (Code 09); 25 loads of concrete and debris going to the east spoil area (Code 03); 10 loads (740 Truck) of soil material from the foundation area going to the east spoil area with the (Code 09).

Site Visitors:

None

Meetings:

No meetings today.

Production Delays, Change Orders, and/or Extra Work Items:

CAT 336 excavator with shear attachement down with broken pin in cutting jaws.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered CRA hearing protection program, including types of protection, action levels, etc. Also covered JSA's on off road trucks.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 7/18/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 43-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 0 | 0 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 7/19/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Lt Breeze 5 to 10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to work on excavation of channel Sta. 26+00 to Sta. 24+00. Dan Brooks operating 345 excavator loading the 740 truck driven by Josh Kincade and the 730 truck driven by David Allen hauling material to the south spoil area. Roger Kerber operated the D6K leveling spoil area and shaping slope of channel. Roy Johnson operated the 966 loader feeding the screen to make 3-inch minus material for the road next to the sedementation pond. Dan Gibson operated the D6R pushing material off the hill to the loader. Paul Conrod operated the 320 excavator with hammer attachment breaking concrete foundations in the channel alignment. Jack Johnson operated the 324 excavator loading 740 truck with concrete and debris driven by Doug Weaver hauling material to the east spoil area. Jeff Karp drove the water truck controlling dust on site.

Production today was: 55 loads from channel cut with 740 off road truck (Code 09); 40 loads with the 730 off road truck (Code 09); 13 loads of concrete (code 03) with the 740 truck; 24 loads of debris with the 740 off road truck (Code 03) this went to the east spoil area.

Site Visitors:

Mechanic from WSECo was out to work on 320 excavator with hammer, welding crack on brace on top of hammer. Also put new set of teeth on 966 loader and checked 324 excavator as ram to bucket seal is leaking a small amount of fluid around seal.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

336 excavator with shear is down with broken pin in jaws. Jim Betty was here to pick up pin about 2 pm to try to have a new one manufactured.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's on equipment fueling reviewed during TGSM.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Todd Smith stopped by and indicated they would be finished with lower ore pile (removed from sedimentation basin) in two more days.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 7/20/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 132.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to work on removal of concrete foundations; Dan Brooks worked with the 345 excavator removing large pieces of concrete from trench, while the D6R dozer helped push large pieces to spoil area east of trailer operated by Dan Gibson. The 966 loader, operated by Roy Johnson, assisted by carrying large pieces of concrete to the east spoil area. Jack Johnson operated the 324D excavator loading spoil material from the trench, from station 24+00 to 22+00, into 740 and 730 off road trucks and hauled to south spoil area, driven by Doug Weaver, Josh Kincade, and David Allen. Dan Brooks operating the 345 excavator loaded 740 truck driven by Doug Weaver, with concrete and hauled to east spoil area. At 10:15 CRA began hauling material from trench to north spoil area using the 740 and 730 trucks, driven by Josh Kincade and David Allen, respectively. When the 966 wasn't carrying concrete, it went back to screening 3" minus material. Jeff Karp drove the water truck today keeping dust under control. Jon Meixner of CRA mobilized to the project site this afternoon and will start work tomorrow.
Production today: 60 loads of concrete to the east spoil area with the 966 loader, 740 off road truck and the D6R dozer (Code 03); 21 loads of material from the trench to the north spoil area with the 740 off road truck and 23 loads with the 730 off road truck (Code 09); 18 loads of soil material to the east spoil area with the 740 truck to fill C&D waste voids (Code 09); 16 loads with the 740 truck to the south spoil area (Code 09).

Site Visitors:

Representatives from the IDEQ were onsite for a tour with Mitch Hart (Nu-West/Agrium), John Brown (GET), and James Williams (Nu-West/Agrium).

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

CAT 336 excavator with shear is still down for repair with broken pin.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA's of heavy equipment operation. Employees need to sign out at end of day.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 7/21/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 5-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 14 | 147 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at excavating channel with 345 excavator, operated by Dan Brooks loading 740 off road truck and hauling to north and south spoil areas, and also worked on building ramp for road going up to phosphoria gulch, connecting the berm from the sed pond to existing road towards the ore pile; native material placed in 1-foot compacted lifts. The 740 trucks were driven by Jon Meixner and Josh Kincade, with the 730 truck driven by Doug Weaver. Paul Conrod operated the 320 excavator with hammer breaking concrete in trench. Jack Johnson operated the 324 excavator loading one 740 truck with concrete and hauling to east spoil area. Roy Johnson operated the 966 loader feeding the screen to make 3" minus material for road. Jeff Karp drove the water truck controling dust on site. David Allen operated the 563 compactor on fill area' s and in spoil area's. Dan Gibson operated the D6R dozer on north spoil area and east spoil area and Roger Kerber ran the D6K grading slopes of channel and Phosphoria Road. CRA completed hauling material to the south spoil area by the end of the day. The area will be graded and prepared for reclamation. Installed BMP's late in the day around the north spoil area.

Production: 27 loads of spoil from the trench with the 730 truck and 27 loads with the 740 to the north spoil area (Code 09); 8 loads with the 730 truck and 8 loads with the 740 truck to the Phosphoria Gulch Road (Code 13); 8 loads of spoil from the channel to the south spoil area with the 740 trucks and 8 loads of same with 730 truck (Code 09); 17 loads of concrete with the 740 truck to the east spoil area (Code 03).

Site Visitors:

None

Meetings:

Discussed filter rock with JB; the river rock material will not work for bedding material per JB and Paul Kos, as it will likely not stay in place on 2:1 slopes and will not lock together as required. However, the rounded material does meet the requirements of the specifications as no fracture was specified and it meets the gradation for filter stone. CRA will begin importing the material for "sprinkling" over rip rap in the channel (approx 800 CY per the last revision of the form of bid). CRA anticipates stockpiling the material north of the slurry pit just east of the USFS road.

Production Delays, Change Orders, and/or Extra Work Items:

Shear is still down for repair waiting for pin. WSECo mechanic onsite late in the day to replace pin, but did not have the proper retainer to complete the installation.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered CPR and JSA's on heavy equipment operation.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 7/22/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 10 to 15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 49-79 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 14 | 139.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | 1 | 9 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 3 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued excavation of channel at station 21+00 to 24+00. Jack Johnson operated the 324 excavator loading the 740 off road truck hauling to the north spoil area, driven by Jon Meixner. Dan Brooks operated the 345 loading 740 trucks, driven by Jon Meixner and Josh Kincade, with 3" minus material hauling to sed pond road, placing last three lifts. Built berm to elevation 6944.0' on west side of pond (leaving 6" for gravel) and tied berm in to hillside to east, wraping berm around the south end. HLE onsite to perform density tests on the remaining lifts of sed pond berm - all tests exceeded 95% relative compaction. Jack Johnson also loaded 730 truck, driven by Doug Weaver, with concrete and hauled to east spoil area / C&D landfill. Roger Kerber on D6K dozer leveled material on sed road and worked shaping slopes in channel. Dan Gibson operated D6R dozer leveling spoil areas (east and north). D6R also pushed up remaining ore near clarifier left by SSP. Jeff Karp drove water truck controlling dust. CRA began to import 3" minus rock for rip rap void fill this afternoon, stockpiling north of slurry pit. Late in the day, used 320 excavator with hammer to break portion of concrete slab north of slurry pit where channel crosses it.

Production Today: 82 loads of 3-inch minus by the 740 off road trucks to the sed pond road (Code 13); 16 loads to the north stock pile with the 740 off road trucks (Code 09); 5 loads of channel spoil to the north stock pile with the 730 off road truck (Code 09); 29 loads of concrete with the 730 off road truck to the east stock pile/landfill (Code 03).

Site Visitors:

WSECo mechanic onsite before 9:00 AM to complete repairs on shear.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Shear was repaired this once pin retainer was re-installed just before 9:00 AM.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered seat belt usage, heavy equipment operation (general), communication, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

HLE onsite from 9:00 AM to 1:00 PM with one technician to complete density tests on last two lifts of sed pond berm.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 7/23/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 10 to 20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 51-82 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 5 | 52.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued the downstream channel cut, working along the NW side of the sed basin, near the septic tank. The 345 excavator and 730 haul truck, operated by Jon Meixner and Dave Allen, respectively, worked from south to north, ramping the cut up to the roadway remaining from GTC Road up to Phosphoria Gulch. The crew then continued cutting near Sta 19+00, moving north across the land bridge. All material was hauled to the north spoil area where Dan Gibson operated the D6R dozer and the 563 compactor. Roy Johnson stockpiled river rock/filter stone as it was delivered periodically until early afternoon. Dan Bailey Trucking delivered 490.57 TN from Smith Constructions source (Simmons Pit) in Soda Springs. Roy also ran the water truck and prepared the screenplant for demobilization next week. The remainder of the CRA crew was off for their rotation home.

Production Today: 56 loads to the north stock pile with the 730 off road trucks (Code 09).

Site Visitors:

Kevin Ritter of Norwest onsite as JB is on vacation. Kevin performed a SWPPP inspection and will go over findings/deficiencies with CRA tomorrow.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered communication, eye contact, site traffic and congestion, wild animals, sheep hearders and sheep that are in GTC for the remiander of the summer, material deliveries, and interaction with the public.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 7/24/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 44-76 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 5 | 51 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued channel cut from Sta 18+00 to 19+00, with Jon Meixner operating the 345 excavator, David Allen on the 730 haul truck, and Dan Gibson leveling and compacting in the north spoil area. Used D6K dozer, operated by Jon Meixner, to push 1-foot lifts of clay material from south to north into the large hole left after removing the concrete conveyor structure near Sta 17+50, replacing approximately 5-feet of fill to bring the bottom back to grade. David Allen compacting material. Roy Johnson completed cleaning the screen plant in between rounds with the water truck. Roy switched to operating the 336 excavator with shear attachment in the afternoon, breaking down concrete pillars and debris in the C&D Landfill for easier concealment with soil cover, at the request of JB earlier in the week. Dan Gibson assisted with the 324 excavator in between working the spoil areas to help move concete and excavate a shallow trench to conceal the material in. Late in the day, Dan Gibson ised the D6K to begin addressing some of Kevin's concerns regarding stormwater compliance at the south spoil area.

Production Today: 35 loads to the north stock pile with the 730 off road trucks (Code 09).

Site Visitors:

Kevin Ritter of Norwest onsite as JB is on vacation.

Meetings:

Discussed SWPPP with Kevin Ritter and walked site to look at BMP's requiring attention; findings as follows: 1) Additonal silt fence required at south end of channel cut, to supplement what CRA already installed. 2) Silt fence, brush, or wattle along west side of sed pond berm on channel side. 3) Minor repair or permanent berm at south end of spoil area on north side of clarifier (silt fence existing, damaged by Smith loading ore. 4) Silt fence at SW side of clarifier needs a J-hook to meet the ditch to south. 5) Silt fence on north side of south spoil area needs maintenance (broken stakes). 6) Upper terrace of south spoil area need perpendicular slope tracking. 7) CRA may consider berms in lieu of silt fence at south spoil area 8) Inlet protection (rip rap) required if ditch crossing to south spoil pile remains in place. 9) Shape swale along west side of south spoil area. 10) No silt fence required south of south spoil area (berm). 11) CRA may need to repair the slope of GTC at the south property boundary where undermined slag collapsed. 12) Shape permanent berms along GTC in the area of the south spoil area. 13) Install a second horseshoe shape of silt fence above the exisiting run west of cap area in Phos Gulch. 14) BMP's south of furnace can be removed. 15) Stake down porta-jons. 16) Label spill kit(s) clearly. 17) Consider moving the jugs of fluid under the trailer left by the pota-jon service company.

Production Delays, Change Orders, and/or Extra Work Items:

Water truck would not start late in the afternoon; suspect another issue with the starter/solenoid. CRA was able to push start the truck.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered communication, eye contact, site traffic and congestion, wild animals, sheep hearders and sheep that are in GTC for the remiander of the summer, material deliveries, and interaction with the public.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 7/25/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 44-76 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 0 | 0 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 7/26/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 5-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 42-86 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 5 | 44 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued channel cut from Sta 19+00 to 17+00, with Jon Meixner operating the 345 excavator, David Allen on the 740 haul truck, and Dan Gibson leveling and compacting in the north spoil area. Used D6K dozer, operated by Jon Meixner, to shape slopes and perform misc grading as required. Roy Johnson completed breaking down concrete pillars and debris in the C&D Landfill for easier concealment with soil cover, using the 336 excavator with shear attachement. Roy Johnson also completed removing portion of concrete slab north of slurry pit where the channel crosses the east edge of it. Dan Gibson also tracked the upper portion of the south spoil area at Kevin Ritter's request to help prevent the development of rills.

Production Today: 45 loads to the north stock pile with the 740 off road trucks (Code 09).

Site Visitors:

Kevin Ritter of Norwest onsite as JB is on vacation.

Meetings:

Discussed septic removal with Kevin Ritter - CRA plans to begin this work Wednesday once Paul Kos (Norwest) is onsite. Discussed filter rock gradation with JB; JB would like CRA/Smith to come up with a crushed material that is as close to spec as possible. Paul Kos has indicated that the fraction under 1/2" (spec at 50%) does not need to be that high, but the material needs to prevent the transportation of silt from the underlying subgrade.

Production Delays, Change Orders, and/or Extra Work Items:

WSECo mechanic onsite to repair minor leak on quick coupler of 345 excavator and check the brakes on the 740 truck.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered communication, site traffic and congestion, are working with C&D debris.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 7/27/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-5 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50- 75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 125 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued excavating trench from station 24+00 to station 12+00. Dan Brooks operated 345 excavator loading 740 off road trucks, driven by Jon Meixner and Josh Kincade, hauling spoil material to east landfill. Material consisted of concrete and soil from where office building stood. Jack Johnson operated 324 excavator loading the 730 off road truck with material form trench going to east spoil area, driven by David Allen. Roy Johnson operated 966 loader to construct containment area for septic tank and associated waste, south of sed pond per Norwest memorandum to IDEQ. Jeff Karp drove water truck controling dust all day. Roy also was picking up pipe from excavation area and placed in east spoil area. Dan Gibson operated D6R leveling materail on the east spoil pile. Paul Conrod operated shear breaking concrete in the downstream channel cut area, near the former office. Roger Kerber operated D6K dozer shaping the slopes of the channel. Had a small crew work on more of Kevin Ritter's comments/corrections required for BMP's in place around the site.

Production today: 36 loads of concrete to the east spoil area with the 740 off road trucks (Code 03); 51 loads of soil from the trench to the east spoil area to cover concrete (Code 09); 3 loads of material from channel that smelled like diesel went to the north spoil area, separated the material in case it required future relocations (Code 09); 5 loads of material along east trench wall to rebuild slope with the 730 off road trucks.

Site Visitors:

Vaughn Rasmussen of Bear Lake County onsite to visit with Kevin Ritter or Norwest regarding truck traffic in Georgetown Canyon. Vaughn sent an e-mail after leaving the canyon that he witnessed trucks traveling too fast and creating a lot of dust. WSECo delivered tracked skidsteer to spread filter rock once rock placement begins.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Worked on rebuilding areas of channel slope, generally upstream of Sta 17+00, that were over-cut as a result of the concrete removal.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered JSA's on equipment. Discussed CRA's Short Service Employee (SSE) program. Kevin Ritter discussed SWPPP with CRA crew and those hwho had not previously signed off on it did so after the meeting.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 7/28/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50- 75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 133.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to excavate trench from station 20+00 to down station 8+00. Dan Brooks operating the 345 loaded the 740 off road trucks driven by Josh Kincade and Jon Meixner hauling material to north spoil area. Dan Gibson operated the D6R dozer leveling spoil piles on east and north areas. Jack Johnson worked with the 324 excavator loading 730 off road truck, driven by Doug Weaver, with concrete from tie backs on north end of channel hauling to east spoil area. Roy Johnson operating 966 loader worked at clearing pipe and misc. debris from trench, placing in east spoil area. Roger Kerber operating D6K dozer worked at grading slopes of trench. David Allen worked operating 563 compactor working on spoil areas and slopes of channels where slopes had to be rebuilt because of concrete walls being in slope cut. Jeff Karp drove water truck controling dust on site. Paul Conrod operated 336 with shear to crush tie backs with concrete along the west side of the channel past the slurry pit.

Production today for CRA: 730 off road truck hauled 15 loads of cocrete to the east spoil area (Code 03). 730 truck hauled 12 loads of soil from the channel to the east spoil area (Code 09). 740 off road trucks hauled 66 loads of spoil to the north spoil area from the trench (Code 09). 740 off road trucks hauled 24 loads of trench spoil to the east spoil area (Code 09). 740 trucks hauled 2 loads of concrete to the east spoil area (Code 03).

Site Visitors:

Mitch Hart (Agrium), James Williams (Agrium), and Paul Kos (Norwest) onsite to visit work area and assess overall progress.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered proper lifting positions and when to use more than one person (rule of thumb - for weights in excess of 50 lbs use a buddy or piece of equipment).

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 7/29/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 0-5 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50 to 80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 131 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to excavate channel from station 20+00 to 18+00, approx. Dan Brooks operated 345 excavator loading 740 off road trucks driven by Josh Kincade and Jon Meixner, hauling material to east spoil area and back to channel where concrete walls were taken out and slopes had to be rebuilt. Removed septic vault with excavator and 740 trucks hauling phosphorous to bermed disposal area south of sed pond. Roy Johnson operated 966 loader screening rock for rip rap. Jack Johnson operated 324 excavator clearing right of way and shaping roadway for USFS road cut near the north end of the slurry pit. Doug Weaver operated 730 truck hauling material from USFS road cut to north spoil area. Jeff Karp drove water truck keeping dust under control. David Allen operated 563 compactor working on channel slope fills and spoil areas north and east. Paul Conrod operated 336 excavator with shear attachment crushing remaining concrete walls and steel tie-backs west of slurry pit. Dan Gibson leveled spoil areas all day with the D6R dozer.

Production today: Hauled 20 loads of spoil with 740 off road trucks to slope area where concrete wall had been removed (Extra work); 10 loads of phosphorous material hauled to disposal area south of sed basin (Code 11); Hauled 18 loads of channel spoil to the east spoil area with 740 off road trucks; Hauled 21 loads with 730 off road truck to the north spoil area from the USFS road cut (Code 07).

Site Visitors:

James Williams onsite to view the septic removal.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered hazards associated with septic removal and elemental phosphorous.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 7/30/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 59-87 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to work on USFS road relocation and excavation of the channel. Dan Brooks operated 345 excavator loading 740 off road trucks, driven by Josh Kincade and Jon Meixner, hauling spoil material from channel to the east spoil area. Dan Gibson leveled material on spoil area's, east and north. Roger Kerber operated the D6K dozer grading the slopes of the channel and leveling material on the USFS road. Jack Johnson operated the 324 excavator cutting part the west side of the USFS road ROW (33' from centerline, approx. 100 ft long). CRA placed filter fabric and then 18" of 4" minus soil/stone, produced while screening rip rap. CRA then placed 3" minus material on top of stone to bring to sub grade elevation. Jack Johnson also loaded 730 off road truck with material from trench from the north end of channel material was hauled to the north spoil area by Doug Weaver in the 730 truck. Jeff Karp operated the 563 compactor for 1/2 day and then drove water truck in the afternoon for the rest of the day to control dust on the site. Paul Conrod operated the 336 excavator with shear attachment 1/2 day cutting pipe that was in the channel excavation. Paul Conrod also operated the 320 hoe ram breaking large rocks for rip rap, for approx. 2 hours. Paul Conrod also drove 740 off road truck while Jon Meixner set grades in channel while the GPS was down for repair. Roy Johnson operated 966 loader screening rip rap for channel with grizzly. Production Today: 90 loads of spoil from the channel with the 740 off road trucks to the east spoil area (Code 09); 2 loads of phosphorous containing material to the impoundment area that is bermed south of the sed pond (Code 11); 12 loads of 3" minus material to the forrest service road with the 730 off road truck (Code 07); 32 loads of channel spoil to the north spoil area.with the 730 off road truck (Code 09).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered heavy equipment operation and work within the USFS road ROW.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 7/31/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 54-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 102 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to excavate channel from station 13+00 to 10+00 and station 2+00 to 4+00. Dan Brooks operated the 345 excavator, loading the 740 trucks, driven by Josh Kincade and Jon Meixner hauling material to north spoil area. Jack Johnson operated the 324 excavator loading the 730 off road truck driven by Doug Weaver, hauling material to the north spoil area. Dan Gibson operated the D6R dozer leveled material on spoil area. Roger Kerber worked at shaping slopes of channel. Roy Johnson operated the 966 loader screening rip rap for channel. Jeff Karp drove water truck controling dust. Paul Conrod operated the 563 compactor working on spoil areas and on fills along trench that had to be rebuilt and reshaped. Work today was ended at eight hours as it was Saturday.

Production Today: 62 loads of spoil hauled with the 740 off road trucks from channel went to the north spoil area (Code 09); 25 loads with the 730 off road truck from trench to the north spoil area (Code 09).

Site Visitors:

Rain for Rent (below)

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered Star Process, JSA's, amd using flagman for traffic control.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Skyler Neibaur with Rain for Rent was on site to view area for bypass system setup. Rain for Rent will mobilize to the site on August 5 to start welding 18" pipe and setup cofferdam structure. System should be operational by the 10th or 11th of August.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 8/1/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 52-81 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 0 | 0 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 8/2/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 10-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 122.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at excavation of channel from station 19+00 to station 13+00. Dan Brooks operated the 345 excavator loading 740 off road trucks, driven by Josh Kincade and Jon Meixner hauling material to north spoil area. Dan Gibson operated the D6R dozer leveling spoil pile. Roger Kerber operated the D6K dozer shaping slopes along trench excavation. Jack Johnson operated the 324 excavator loading 730 truck with trench spoil, driven by Doug Weaver hauling to north spoil area. Roy Johnson operated the 966 loader screening rip rap. Jeff Karp drove water truck controling dust on site. Installed frnech drain (rock) across forest service road at Pauls Kos direction as water was seeping from the USFS road ROW cut and running out onto the road.

Production for today: 90 loads with the 740 off road trucks went to the north spoil area (Code 09); 34 loads with the 730 off road truck went to the north spoil area (Code 09); 10 loads from the forrest service road cut to the north spoil area (Code 07).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Extra work requested by Paul Kos; asked CRA to install a french drain across the forest service road into the channel cut to divert seep from hillside out of roadway.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered air monitoring in excavations.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 8/3/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 10-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 124 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Rain fell early today making the ramps coming out of trench too slippery to work at station 19+00 to 21+00 so CRA moved to north end of trench and started excavation from station 2+00 to 8+00. Dan Brooks operated the 345 excavator loading 740 off road trucks, driven by Jon Meixner and Josh Kincade, hauling spoil from trench to north spoil area. Dan Gibson operated D6R dozer leveling north spoil area with David Allen operating the 563 compactor there as well. Roger Kerber operated D6K dozer shaping slopes of trench excavation. Around 3:00 PM, moved to spreading road base for road along sed pond. Jeff Karp on water truck controlling dust. Jack Johnson operated the 324 excavator loading 730 truck, driven by Doug Weaver, with spoil from trench and also hauling to north spoil area. Roy Johnson continued to screen rip rap with the loader and grizzly. Dan Bailey Trucking imported 200.03 TN of road base from Smith Construction source.
Production today: 103 loads with the 740 off road trucks to the north spoil area (Code 09); 39 loads with the 730 off road truck from the trench to the north spoil area (Code 09).

Site Visitors:

WSECo (CAT) mechanic was out to work on equipment.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered biting insects; namely ticks. Reminded crew to check themselves for tick bites and the bullseye that can form after a bite (a red mark with a ring).

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 8/4/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked today excavating trench from station 19+00 to 21+00 and from station 2+00 to 10+00. Dan Brooks operated 345 excavator loading 740 off road trucks, driven by Josh Kincade and Jon Meixner, taking material to north spoil area. Dan Gibson operated the D6R dozer leveling north spoil area. Jack Johnson operated 336 excavator loading the 730 off road truck, driven by Doug Weaver, hauling material to north spoil area. Jeff Karp drove the water truck controling dust on site. Roger Kerber operated the D6K dozer leveling gravel imported for sed road. David Allen operated the 563 compactor and the 533 smooth drum compactor, compacting spoil area and gravel base. Roy Johnson continued to screen rip rap and stockpile with the 966 loader and grizzly. Dan Bailey Trucking imported 580.62 TN of road base from Smith Construction source.

Production Today: 60 loads of spoil from the trench to the north spoil area, with the 740 off road trucks (Code 09); 47 loads with the 730 off road truck from the trench to the north spoil area (Code 09).

Site Visitors:

WSECo salesman (Tom Betty , Russ White, and Jim Betty). Mitch Hart and James Williams from Nu-West / Agrium onsite for visit.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

CRA TOPCON GPS unit down - Scherbel to come out to perform staking until issue is resolved.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered 12V battery handling and transportation procedures.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 8/5/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 37-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 2 | 14 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at placing road gravel on the forest service road today, with Roger Keber operating the D6K dozer leveling and grading the gravel. The 533 smooth drum compactor, opreated by David Allen, compacted the gravel as it was placed. Dan Brooks 0perating the 345 excavator loading the 740 trucks, driven by Josh Kincade and Jon Meixner, with spoil from station 19+00 to station 21+00 in trench, which was hauled to north spoil area. Jack Johnson operated the 336 excavator removing material from trench between station 9+00 to 7+00, loading the 730 truck hauling spoil to the north spoil area, driven by Doug Weaver. Jeff Karp drove water truck controling dust on site. David Allen also operated sheepsfoot compactor on north spoil area. Roy Johnson continuing to produce rip rap with the 966 loader and grizzly. Dan Bailey Trucking hauled 504.60 TN or road base from Smith Source.
Production Today: 81 loads with the 740 off road trucks hauled from sta. 19+00 to 21+00 (Code 09); 37 loads with 730 off road truck went to the north spoil area. (Code 09) 11 loads of concrete debris went to the east spoil area (Code 03).

Site Visitors:

WSECo mechanic onsite to replace worn cutting edges on D6K dozer.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered Stop Work Authority (SWA) policy - anyone has the right to stop work if they feel something unsafe is occuring. Incident with Truck 160 today - operator backed into parked 740 haul truck - HSO to prepare incident report ASAP.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Scherbel onsite to perform grade staking along channel alignment.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 8/6/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 123.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at excavation of trench from station 1+75 to 9+00. Dan Brooks operated the 345 excavator loading 740 trucks driven by Josh Kincade and Jon Meixner with material and hauled to north spoil area. Dan Gibson operated D6R dozer leveling spoil area to the north. Jack Johnson operated the 336 excavator loading material from trench into the 730 off road truck until about 10:30 when the 336 electrical system quit working, and we put the 324 excavator back to work. Doug Weaver drove the 730 off road truck. David Allen operated the 563 compactor on north spoil area. Jeff Karp drove the water truck controling dust on site. Roy Johnson operated 966 loader seperating rocks from debris, stockpling bedding stone, and unloading HDPE pipe for bypass system for creek. Jack Johnson also worked spreading material containing trace amounts of phosphorous in bermed area.
Production today: 66 loads with the 740 off road trucks from the trench to the north spoil area (Code 09); 27 loads with the 730 off road truck from the trench to the north spoil area (Code 09); 4 loads of debris went to the east spoil area with the 730 off road truck (Code 03).

Site Visitors:

WSECo mechanic on site to repair 336 excavator.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

336 excavator down at 10:30 am with electrical problems - previosuly released 324 excavator put back into service.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed incident of yesterday with pickup truck and how any piece of equipment should have 360 walkaround inspection done before moving.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 8/7/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 14 | 143.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued excavation of trench from station 14+50 to 9+00 and station 1+75 to 8+00, removing soil and hauling to north spoil area. Jon Meixner operated the 345 excavator loading the 740 off road trucks, driven by Josh Kincade and Kiven Baumgartner, amd Dan Gibson operated the D6R dozer leveling spoil from trucks. Paul Conrod operated the 336 excavator after it was repaired this morning and Doug Weaver drove the 730 off road truck hauling spoil to the north spoil area. Jack Johnson, Jeff Karp, and David Allen worked grading GTC road south of the site, using the water truck, compactor, and grader. Roy Johnson operated the 966 loader continuing to produce rock rip rap. Roger Kerber operated the D6K dozer shaping slopes and bottom of trench. Brian Pitts operated the skid steer working the bottom of the trench as well and operated the 320 excavator with hammer to break some concrete in trench as it was encountered.
Production Today: 38 loads with the 730 off road truck from the channel to the north spoil area (Code 09); 48 loads with the 740 off road trucks from the channel to the north spoil area (Code 09).

Site Visitors:

WSECo mechanic onsite to repair control issue with 336 excavator.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

336 excavator was repaired today by noon. 740 truck went down at 9:00 am and was down for the rest of the day - suspected water pump issue.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered using proper sun protection (sunscreen, lonf sleeve shirt, hat, etc)

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Out of Scope Work**
**Daily Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 8/8/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 0 | 0 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 8/9/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 114 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at seting up 4" pump and pipe to try and keep trench dewatered, prior to excavating this morning. Jon Meixner operated 345 excavator loading 730 off road truck driven by David Allen, hauling material to north spoil area, where Dan Gibson operated the D6R dozer leveling the material. Paul Conrod operated the 336 excavator loading the 740 off road truck, driven by Josh Kincade, hauling material to north spoil area. Jack Johnson operated the 324 excavator working with the crew of rain for rent, along with Roy Johnson, who was operating the 966 loader. Both assited with the unloading and setting of 18" HDPE pipe for the bypass system. Doug Weaver drove the water truck for dust control on site after Jeff Karp went home with illness.

Production today: Hauled 28 loads with the 730 off road truck from cut area between sta 12+00 and sta 10+00 to the north spoil area (code 09); Hauled 29 loads with the 740 off road truck from cut area between sta 7+00 and sta 8+00 to the north spoil area (Code 09). *Second 740 off road truck was down for repair due to broken raidiator hose* .

Site Visitors:

Western states mechanic on site to repair 740 off road truck.

Meetings:

Meeting between NuWest, SSP, USFS, and Bear lake County to discuss hauling to CF Site and condition of road. Mitch Hart issued plan summarizing what was discussed at the meeting. CRA will keep grader onsite for now and may be asked to assist with watering as SSP and Bear Lake County work to maintain road and apply dust suppresant.

Production Delays, Change Orders, and/or Extra Work Items:

336 excavator was repaired today by noon. 740 truck down at 9:00 am and was down for the rest of the day with cooling system issue.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

House Keeping,Trying to Hurry to much.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Rain for Rent on site to weld by pass pipe to carry creek water. Workers Peter Hinton,Brent Layton, and Trent Johnson arrived at about 9:30 a:m. They received 19 pcs. Of pipe today. They welded 640 lineal feet today.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 8/10/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-77 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 124.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 11 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRAs work consisted of the following: Jon meixner operated the 345 loading the 740 off road trucks, driven by David Allen and Josh Kincade, hauling from channel to the north spoil area. Dan Gibson operated the D6R dozer leveling spoil areas. Paul Conrod operated the 336 excavator loading the 730 off truck, driven by Doug Weaver, hauling material to the north spoil area as well. Paul also worked spreading out phosphorous at the bermed up area that was discovered in the Tank Spring channel cut at the north end of the site. Jack Johnson operated the 324 excavator working with rain for rent to pull pipe as required during bypass pipe fusion. Roy Johnson operating the 966 loader also worked with Rain for Rent placing pipe in the welding rack. Doug Weaver operated the 320 excavator with hammer breaking concrete walls of old scale fountation discovered in USFS ROW. Paul Conrod and Jon Meixner assited with the demolition work with the excavators as well. Debirs were hauled to east spoil area from the demolition work. Roger Kerber operated the D6K dozer grading slopes and bottom of trenck. Jeff Karp operated water truck all day.

Production: 39 loads with the 740 off road trucks from the channel to the north spoil area (Code 09); 10 loads with the 730 off road truck from the channel to the north spoil area (Code 09); 13 loads with the 730 off road truck from the channel to the east spoil area (Code 09); 8 loads of debris from the scale foundation to the east land fill with the 740 off road truck (Code 03).

Site Visitors:

WSECo onsite to change oil and service equipment: 740 truck and D6K dozer. Long reach (324) excavator mobilized late in the day to the site for rock placement in the channel late this week/early next week.

Meetings:

Discussed removal of old scale discovered in USFS ROW (see below). Also discussed re-routing new road to north end of slurry pit - formal directive from JB to come.

Production Delays, Change Orders, and/or Extra Work Items:

Demolition of old scale pit in USFS ROW - JB and Mitch Hart approved CRA to remove structure, haul debris to landfill (onsite), and backfill to grade.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered SWA, slips/trips/falls, and heavy equipment operation (general).

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Surveyor Scherbel on site today with one man crew setting grade stakes in channel as CRA's GPS unit down for repair.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 8/11/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 50-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 125.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 10.5 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of the following: Paul Conrod loading 740 off road truck with concrete and debris, driven by Josh Kincade, and hauled to east spoil area from scale pit (approx size of scall pit: 10x45x4 WxLxD). Doug Weaver operated the 320 excavator with hammer breaking concrete walls and floor into managable pieces. Jon Meixner operated the 345 excavator excavating material from station 3+00 to 7+00, loading the 730 off road truck driven by David Allen, with material taken to north spoil area. Dan Gibson operated the D6R dozer leveling material on the north spoil area. Roger Keber operated the D6K dozer shaping channel slopes. Jack Johnson operated the 324 excavator working with Rain for Rent pulling pipe for welders. Roy Johnson operated the 966 loader working with Rain for Rent placing pipe in the welders. Jeff Karp drove water truck controling dust on site. Paul Conrod also used the 336 excavator to stir phosphorous waste piles twice a day. Excavation left from removal of scale pit was backfilled with screened 4" minus soil/rock (produced during the rip rap screening process) and compacted with the sheepsfoot. Smith Construction/Dan Bailey Trucking imported road bae and filter rock.

Production today: 22 loads with 730 off road truck hauled from sta.3+00 to 7+00 to the north spoil area (Code 09); 14 loads with 740 off road truck of concrete to the east spoil area (Code 03); 3 loads from the trench to the north spoil area with the 740 off road truck (Code 09); 10 loads of 4" minus backfill to the scale pit (backfill came as a by product from screening rip rap) (Code 03).

Site Visitors:

WSECo service onsite to change oil and service D6R dozer and 563 compactor, and removed rock guard and replaced bolts.

Meetings:

Meeting between JB, Dave, Matt, Alan (SSLTD), and Skyler (Rain for Rent) to finalize details on bypass system. Grades in creek and onsite are somewhat different than anticipated requiring the inlet structure to be set over 1,000 LF to the north of the CMP outlet vs the 600-700 LF anticipated by JB and Paul. JB made the decision, with CRA and Smith Construction, to stop importing filter gravel as the material had too many fines and other material that did not meet spec. CRA will work on procurement of an alternate source. Currently, an est 560 CY of crushed material is onsite, so another 640 CY are required.

Production Delays, Change Orders, and/or Extra Work Items:

Demolition and backfilling of old scale pit in USFS ROW (Code 03).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussion on driving while not on the job. Incident late in the day with Rain for Rent: employee was in the process of welding a collar onto a piece of 18-inch HDPE pipe when the pipe shifted for some unknown reason causing the collar to fall. The collar pinched the tip of one of this individual's fingers against the pipe and it cut the tip of his finger. The cut appeared to need some stitches so they sent the individual to the hospital. A report will be prepared by Rain for Rent and CRA.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Surveyor Scherbel on site today with one man crew setting grade stakes in channel. Rain for Rent onsite to continue fusion of 18" HDPE pipe for GTC bypass.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 8/12/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 124 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of the following activities: Jon Meixner operated the 345 excavator loading 730 off road truck, driven by David Allen, hauling spoil from tank spring trench to north spoil area. Dan Gibson operated the D6R dozer leveling the spoil area. Jack Johnson operated the 324 long stick excavating the V-trench (bottom of channel) between stations 8+00 and 7+00. Roger Kerber operated the D6K dozer shaping slopes pryor to cutting V-trench for rip rap,and checking grade for trench with GPS. Roy Johnson operated the 966 loader setting pipe for welders and Doug Weaver operated the 324 excavator, working with Rain for Rent pulling pipe for welders. In afternoon Jon Meixner parked 345 excavator and drove 740 off road truck hauling material that was stockpiled from screening of rip rap taking spoil to east spoil area; material will be used for clean cover soil at the landfill. Jeff Karp drove water truck controling dust onsite. Dan Bailey Trucking imported road base today (see tonnage next sheet).

Production for today: 24 loads with the 740 off road trucks from the trench to the north spoil area (Code 09); 4 loads with the 730 off road truck from the V-trench to the north spoil area (Code 09).

Site Visitors:

None

Meetings:

Dan discussed survey discrepancey between Scherbel's staking and GPS model, derived from IFC AutoCAD DWG. Informed JB that the AutoCAD only had a 1.5' deep channel (measured from flow line to top of bench) and that the rock was at a 3:1 slope, not 2:1 as shown in the detail sheets. This made the bottom of the channel and extra 1.0' wide. JB will work with Paul Kos on this next week.

Production Delays, Change Orders, and/or Extra Work Items:

Rain for Rent continuing to weld pipe, but their engineering group is running pipe flow calculations to pin point the location of the cofferdam to ensure the grade is enough to handle up to 10 CFS (apporx).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM focised on slowing down and using the STAR program. Look before you leap!

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Rain for Rent has only about one more day of welding HDPE for bypass of creek.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 8/13/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 7 | 73.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 10 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of the following: Jack Johnson operating the 345 excavator working with Rain for Rent setting inlet of bypass system and excavating bench on west side of creek to lay 18" pipe on. Roger Kerber set up lazer to check grade for excavator. Roy Johnson operated the 966 loader to work with Rain for Rent welders. Doug Weaver operated the 324 excavator working with crew to pull trees and willows along creek bank to cut bench for bypass water line. In afternoon Doug weaver excavated material from station 9+00 and loaded it into 740 off road truck driven by David Allen, and hauled material to east spoil area. Dan Gibson worked 1/2 day leveling north spoil area and the other 1/2 day drapping three power poles down to the creek to place by pass pipe on. Remainder of crew was on rotation home.

Production today was: 10 loads of spoil from the trench at sta. 9+00 that went to the east spoil area with 740 truck (Code 09)

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Rain for Rent is short about 400 ft. of pipe, based on bypass system changes necessary based on actual elevations in creek. Rain for Rent to mobilized more pipe next week.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Watch for the unexpected! Use the Star!

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel surveying was on site today to check grades in trench. Rain for Rent on site welding pipe for creek by pass.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 8/14/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 77 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 10 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Doug Weaver operated 345 excavator cutting bench for pipe. Roy Johnson operated 336 excavator cutting notch to install silt fence and driving water truck for dust control. Jack Johnson Operated the 324 long stick excavating V-trench at station 6+00 to station 7+00. Roger Kerber worked as grade checker for long stick excavator. Dan Gibson operated the D6R dozer shaping area where ore was removed by Smith Construction in Phosphoria Gulch. In the afternoon, 345 excavator loaded a few loads of spoil to build up haul road to bring elevation to what was needed to lay bypass pipe on. Jack Johnson had four loads of excavation from the V-trench that went to the east spoil area for cover material. Kevin Baumgartner checked grade with the lazer for Doug Weaver who excavated bench for the by pass water line. Brian Pitts installed silt fence along the creek where bench was excavated with David Allen. They also installed silt fence up at the ore pile where Smith's Construction had knocked down the silt fence for the fourth time. In the afternoon Brian Pitts and David Allen drove truck and operated smooth drum roller to place material on haul road for the pipe line by pass.

Production today: 16 loads of material from the trench with the 740 off road trucks to the haul road for building the bench to the correct elevation for the by pass water line (Code 09).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Rain for Rent to mobilize 400 LF additional HDPE to complete GTC Bypass System.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM cover slips/trips/falls, pinch points, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 8/15/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 43-76 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 0 | 0 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 8/16/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 47-81 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 7 | 73.01 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of the following activities: Excavation of trench around station 18+00, cutting a portion of ramp out and hauling to the north to build bench for by pass water line. Doug Weaver operated the 345 excavator loading the 740 off road truck, driven by David Allen. Jack Johnson operated the 324 long stick excavator, excavating the V-trench. Roger Kerber checked grade with the GPS for cutting V-trench as well as driving 740 off road truck to take spoil to the east spoil area. Dan Gibson operated the D6R dozer, leveling area where ore pile was located, and shaping for drainage, as Smith Construction left a large qty of ore in Phosphoria Gulch. Roy Johnson operated D6K Dozer cutting the bench for the by pass water line and shaping the one on two slopes of the trench.

Production Today: 46 loads from the trench to the north spoil area ( Code 09).

Site Visitors:

Mechanic from WSECo out to repair water truck - electrical/starter problems.

Meetings:

Discussed filter gravel from Kilroy LLC in Afton, WY briefly with JB via e-mail. CRA will have HLE run a sieve analysis on Kilroy's sample, a blend of equal parts 2", 1", 1/2", and 3/8" clean crushed materials. JB indicated that this material sounded like it would work, but warned about excessive fines and dirt observed in Smith's material.

Production Delays, Change Orders, and/or Extra Work Items:

Waiting on 18" pipe for water bypass system from Rain for Rent - should be delivered tomorrow or Wednesday.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered continuing to alert each other of traffic on the USFS road. Also discussed JSAs on dozers, excavators, and compactors.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

No subcontractors on site today.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 8/17/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 47-81 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 126 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of the following: Excavating trench spoil with the 345 excavator, operated by Doug Weaver, from station 19+00 to 21+00 and loaded into the 740 off road trucks, driven by Josh Kincade and David Allen. Roger Kerber and Roy Johnson worked on cutting bench to lay HDPE pipe on. Pulled pipe into position for Rain for Rent to connect to inlet structure within the coming days, once the remainder fo the pipe is onsite. Jack Johnson, Paul Conrod, and Jon Meixner worked on cutting V-trench from station 4+50 to 2 +00, with Paul and Jack operating the excavators and Jon Meixner checked grade in with the laser. Dan Gibson operated the D6R dozer stock piling spoil on east landfill to cover pipe when cra takes 60-inch CMP out at the downstream end of the channel. Jeff Karp drove the water truck to keep dust under control.

Production Today: 60 loads of spoil from the trench with the 740 off road trucks that went to the east spoil area (Code 09).

Site Visitors:

Mitch Hart (Nu-West/Agrium) on site to meet with JB.

Meetings:

E-mail from Paul Kos regarding the discrepancey between the IFC AutoCAD DWG and the section details for the channel. Paul indicated that we do need the 2′ of depth in the V-ditch, which was not shown in the electronic file used to create the GPS model. He also stated that an extra foot on the overall bench width is OK – and whether it is on the bench or part of the V-ditch doesn't matter; leaving an extra 0.5′ on the bench is a good plan to compensate for the incorrect GPS TIN.

Production Delays, Change Orders, and/or Extra Work Items:

Rain for Rent waiting on additional pipe to complete system.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered last 4 days of work, and crew discussed general H&S observations from that period.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above (production delays)

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 8/18/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-80 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 131.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work consisted of the following: Doug Weaver operating the 345 excavator loading the 740 off road trucks, driven by Josh Kincade and David Allen, with ore from phosphoria gulch at JB's request. Dan Gibson operating the D6R dozer pushing ore into pile for excavtor to load and leveled stockpile where trucks were dumping, south of the sedimentation basin. Paul Conrod operating the Komatsu PC158 cutting the V-trench at station 14+50 to 12+50, with Jon Meixner checking grade and performing layout work. Jack Johnson operating 324 long stick excavator triming slopes and benches, from station 2+00 to 7+00. Roy Johnson operating 966 loader worked with Rain for Rent, placing pipe to fuse for Rain for Rent. Jeff Karp drove water controling dust on site.

Production: 54 loads of ore went to stock pile south of sed. pond (Code 25); 15 loads of spoil from the channel went to the north spoil area (Code 09).

Site Visitors:

WSECo picked up tracked skidsteer that was planned for use in the bottom of the channel for spreading filter rock - the machine will not be necessary.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

CRA was excavated ore from phosphoria gulch and hauled to area south of sed pond; material left by Smith Construction/SSP. CRA hauled 54 loads of ore to stockpile area. CRA to remove the bulk of the remaining ore in order to revegetate phosphoria gulch.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA of placement of stone and rip rap.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Rain for Rent took delivery of remainder of pipe required to complete bypass system and completed welding pipe late in the day.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 8/19/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 48-86 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 128 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 10 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work for today consisted of the following: Doug Weaver operating the 345 excavator removing ore in phosphoria gulch and loading 740 trucks, driven by David Allen and Josh Kincade, and hauling to south of sed pond where ore is being stockpiled. Also worked on installing silt fence in phosphoria gulch, placing rip rap in ditch that was asked for by Paul Kos. Roy Johnson operated 966 loader working with Rain for Rent working for installing pipe for creek bypass. Jack Johnson operated the 324 long stick also working with Rain for Rent on the downstrem discharge for the bypass pipeline. Paul Conrod operated the Komatsu PC158 excavator cutting V-trench from station 11+50 to 12+50 with Jon Meixner checking grade and performing layout work. Jeff Karp drove water truck keeping dust under control. Roger Kerber operated the D6K shaping slopes of trench. Dan Gibson leveled spoil on the east spoil area with D6R dozer. Scherbel onsite to continue staking wier and plunge pools.

Production Today: 4 loads of rip rap to Phosphoria Gulch drainage ditch (Code 25) 6 loads of Ore went to the stock pile south of the Sed. Pond (Code 25). 7 loads of spoil came from the trench went to the east landfill. (Code 09) Installed 600' of silt f

Site Visitors:

Jim Bitty from WSECo onsite to go over invoices and check on any equipment issues.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Installed remainder of silt fence left onsite in Phosphoria Gulch. CRA to mobilize an additional 4" pump to handle water seeping into the dry portion of the channel upstream of the CMP inlet. Contined ore removal in Phosphoria Gulch, as discussed above. Began work on adding additional rip rap to unlined portion of ditch in Phosphoria Gulch as requested by Paul Kos.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered air monitoring and comlacency. Also discussed recent hit on HCN meter in Phosphoria Gulch - employees did the right thing by leaving the area once the reading of 3.0 PPM was observed. No other readings were observed in that area for the remainder fo the day.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Rain for Rent completed installation of the bypass pipe line today and began diverting the creek. However, 50-60 gpm (estimated by JB) is flowing in from the banks in the 1100 foot streach between the dam and the inlet of the CMP. CRA will mobilize an additional 4" pump to handle this water and pump back to the channel, unstream of the dam.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 8/20/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 48-86 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 121.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRAs work today consisted of the following: Paul Conrod and Jon Meixner worked on excavating V- trench, with Paul operating the Komatsu PC158 excavator and Jon checking grade. Jack Johnson operated the 324 long stick excavator shaping slopes and benches of V- trench; station 7+00 to 2+00 (approx). Dan Gibson operating the D6R dozer grading the east spoil area for drainage. The rest of the crew worked on installing pipe and pump for pumping water from the creek where it enters the CMP, to handle the water seeping from the channel banks and bottom upstream of the CMP inlet, downstream of the dam (Doug Weaver, Roger Keber, Jeff Karp, Josh Kincaide, and Roy Johnson with the 966 loader). In the afternoon Roger Kerber operated the 336 excavator loading Ore into the 740 off road truck driven by Josh Kincade. Dan Gibson operating the D6R pushed ore up into the pile for the excavator to load the 740 truck in Phosphoria Gulch. Material was hauled to the stock pile south of the Sed Pond.

Rain for Rent arrived with a second 4" pump late today which will be set up to pump water from the trench upstream to the first pump which was set up at sta. 1+70, pumping water from the CMP inlet north to the bypass inlet. Paul Conrod and Jon Meixner with help from Roy Johnson started to install the pipe and set the pump. Doug Weaver operated the 345 excavator reacting Phosphorous in the disposal area south of the sed pond.

Production Today: 23 loads of Ore with the 740 off road was stocked piled south of the sed. pond (Code 25); 3 loads from the channel was hauled to Jack Johnson to build up benches of the trench over excavated because of design discrepancey (Code 09).

Site Visitors:

Two mechanics from WSECo onsite to service equipment--changed fluids on 345 excavator, both generator sets, one 740 off road truck, and the D6K Dozer. Mechanic also welded on the set of forks for the 966 Loader.

Meetings:

Discussed ore removal with JB in Phosphoria Gulch - JB would like to cut ore to native material through the gulch to within 150' or so of ore area cap. CRA to cover ore near the cap and any deep pockets with spoils or Dud Hollow material prior to revegetation. Discussed plunge pools and wiers with JB and then Dan White and JB spoke with Pual Kos - AutoCAD drawing doesn't reflect the desired grades thorought the areas where the plung pools and wiers are located. It appears the grades of the benches need to drop at each pool which is different than the details in the IFC drawings. Paul to visit the site next wednesday to make a determination of what is to be done moving forward. JB is also concerned that more rock nees to be installed in lieu of soil benches for long term stability - Paul to review. CRA will NOT cut any more pools/wiers until Paul Kos visits the site. CRA to react phosphorous one more time prior to capping in disposal area.

Production Delays, Change Orders, and/or Extra Work Items:

Production Delay: instructed to stop excavating on V-Trench due to possible change in design (above).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA on pinch points.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 8/21/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 51-89 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 3 | 76 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued ore excavation and relocation in Phosphoria Gulch, with material being hauled to the stockpile area south of the sed pond. Jack Johnson operated the 345 excavator and the 324 long stick excavator, using the 345 to load the 740 haul trucks, driven by Josh Kincade and Doug Weaver, and the 324 to trim ore from high up on north slope. Dan Gibson operated the D6R dozer pushing up ore and leveling material in the stockpile area. Roger Kerber graded slopes with the D6K dozer from Sta 12+00 to 19+00. Jon Meixner and Paul Conrod setup the second 4" pump and pipe to move water from the Tank Spring area back to the other 4" pump capturing water running into the CMP inlet and moving it upstream of the bypass inlet. Built a ramp over the 6" pipe with rip rap reject material, hauled with the 740 truck and levled with the D6R dozer. Josh Kincade also operated the water truck as needed through the day. Jack Johnson graded site roads with the 140H graded at the end of the shift.

Production Today: 21 loads of ore with the 740 off road was stocked piled south of the sed. pond (Code 25); 4 loads of rip rap rejects (4" minus) hauled to build ramp over 6" discharge from second dewatering pump (Code 12).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Production Delay: instructed to stop excavating on V-Trench due to possible change in design; pending results of site meeting with Paul Kos next week.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSA on pinch points and pump operation.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 8/22/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 0-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 55-87 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 16 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Roger Kerber and Paul Conrod onsite to check 4" dewatering pumps (2). Discovered mechanic issues with both. Pump near CMP outlet leaking oil (minor) and was not maintaining prime (suspected issue with priming system). Pump was removed and replaced with other 4" pump near tank spring that is having trouble maintaining prime at lower RPM's. Contacted Rain for Rent regarding mechanical issues.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Production Delay: instructed to stop excavating on V-Trench due to possible change in design; pending results of site meeting with Paul Kos next week.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 8/23/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 37-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 90.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of: Jack Johnson operating the 324 long stick excavator cutting ore from nporth slopes of Phosphoria Gulch. Roy Johnson operated the 345 excavator to load ore into the 740 off road trucks and haul to stock pile south of sed pond, with Doug Weaver and Josh Kincade driving the 740 trucks. Paul Conrod operated the 336 excavator loading the 730 truck, driven by Jon Meixner, with spoil from trench and stockpiling material south of sed pond to cover phosphorous material and ore pile when completed. Roger Kerber operated the D6K dozer shaping slopes of channel and sed pond slopes. Dan Gibson operated the D6R dozer pushing up ore into a pile to load out.

Production today was: 34 loads of ore from Phosphoria Gulch to the stock pile south of the sedimentation pond (Code 25); 11 loads of spoil from the trench from along pipe line to the stock pile to cover the Ore pile south of the sedimentation pond (Code 26).

Site Visitors:

Mechanic from Rain for Rent to work on the 4" power prime trash pump, which was down all day.

Meetings:

Discussed ore removal with JB in Phosphoria Gulch; remove ore to native to within 150'-200' of ore area cap, cover remaining ore with spoil material. Removed deeper pockets in east end of Gulch with JB's approval. Overall ore qty to remove estimated at 6,000 CY per JB. CRA discussed pumping equipment; CRA to mobilize a third 4" trash pump to serve as a backup; plumbed to the other 4" pump upstream of the CMP inlet, with both running on floats, and set in a spillgaurd; JB agreed that this was a good idea to make sure we did not have water flowing down the pipe once removal began.

Production Delays, Change Orders, and/or Extra Work Items:

Production Delay: instructed to stop excavating on V-Trench due to possible change in design; pending results of site meeting with Paul Kos next week (Wednesday).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Review on past days safety meetings, including pinch points, think before you start your operation of work, STAR process, SWA, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 8/24/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-83 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 99 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of the following: Jack Johnson operating the 324 long stick removing ore from phosphoria gulch and placing in stockpile for Jon Meixner who was operating the 345 excavator to load 740 off road trucks driven by Josh Kincade and David Allen, hauling material to south of the sed pond stockpile. Paul Conrod operated the 336 excavator, excavating CMP pipe from trench, loading 730 off road truck, driven by Doug Weaver. Roger Kerber operated the D6K dozer shaping slopes of channel. Dan Gibson worked at leveling the ore stockpile south of the sedimentaton pond with the D6R dozer. Josh Kincade also drove the water truck for part of the day as required. Jack Johnson also operated the 140H grader blading onsite haul roads and USFS road. Roy Johnson operated the 966 loader placing HDPE pipe and also hauling CMP pipe from the trench to staging area east of the office trailer. Jon Meixner mixed the phos pile for four hours once proper notifications were made by JB. Jon Meixner, Roy Johsnon and Roger Kerber worked on the 4" pumps for four hours.

Production today was: 25 loads of Ore with the 740 off road trucks from Phosphoria Gulch hauled to the stock pile south of the sedimentation pond. (Code 25); 28 loads of spoil from around the 48" pipe in trench hauled to east sedimentation pond and south stockpile along side of ore pile (Code 26).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Production Delay: instructed to stop excavating on V-Trench due to possible change in design; pending results of site meeting with Paul Kos next week (Wednesday).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Review of the JSA on cutting torch.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 8/25/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 38-86 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 99.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 10 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of: Paul Conrod operating the 336 excavator removing soil away from CMP pipe in the trench and then pulling the CMP pipe. Pipe will be picked up by Hennings Recovery and recycled. After pipe was pulled native material will be placed back in CMP trench and compacted as pipe lies in toe of slope and crosses bottom of trench and back again, at an elevation lower than the invert of the new channel. Roy Johnson operated the 563 compactor, compacting soil that went back into the pipe alignment from sta 19+00 to 20+50. Roy Johnson also transfered boulders from south of phosphorous disposal cell north to the rock stock pile. Jon Meixner operated the 345 excavator in phosphoria gulch loading ore into the 740 off road trucks, which were driven by Doug Weaver and David Allen. Material was hauled to the stockpile south of the sedimentation pond. After completing excavation of the ore equipment started to back haul soil from the east land fill stockpile. This material was taken back into the phosphoria gulch as cover material.

Jack Johnson operated the 140H grader blading area for stockpiling filter stone material to be imported. Also bladed forrest service road to the south where the brine had been placed. Roger Kerber operated the D6K shaping material in phosphoria gulch. Dan Gibson leveled ore stockpile an also stirred the phosphorous in disposal cell. Josh Kincade drove the water truck for dust control.

Production Today: 65 loads of Ore from Phosphoria Gulch that was stock piled south of the sedimentation pond (Code 25). Have removed to date approx 800 LF of CMP from the trench.

Site Visitors:

Alan from Scherbel onsite today.

Meetings:

CRA met today with Paul Kos and JB to discuss re-designing of the width of the bottom of the trench. Alan from Scherbel Surveying also attended this meeting. Paul Kos to provide additional survey points and revised channel details to CRA and Scherbel in the next day or so. The typical channel geometry hasn't changed, but the construction method has. The 3' bench will be excavated out leaving windrows on the slopes above both benches. The filter gravel and riprap will be placed to form the necessary channel (2' deep and 8' wide). Erosion control blanket will be placed along the base of the filter gravel and up the outside of the riprap. The soil from the windrow will then be placed to form the bench and anchor the blanket. The bench will be part riprap to maintain the necessary channel geometry and part soil. The width of the riprap on the bench is to be minimized to the extent practicable as we need soil to grow trees and grasses. The blanket sections will be placed over the riprap until the area is hydroseeded and the blanket fully anchored on the bench and 2' up the slope.

The weir detail was updated to provide a clearer picture of the final product. The bench from the weir structure to the outlet of the plunge pool will have a steeper slope (~10%) to compensate for the 1' drop over the weir. The benches should be armored with riprap along this steeper section to provide protection from erosion. The bench width will decrease at the deepest point in the plunge pool to avoid oversteepened slopes in the pool. The channel and benches should follow the typical channel geometry (1.4% slope and 2' v-notch depth) from the end of the plunge pool until the next weir structure.

Production Delays, Change Orders, and/or Extra Work Items:

CRA is still waiting for determination of the changed design of the bottom of the trench.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered watching our driving habits and speed in Georgetown as school is starting and children will be walking along roads and standing for bus pick up.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Scherbel Surveying on site today Rain for Rent picked up 4" pump that had been repaired two days ago and did not work. He took it back to the shop to repair again (bad seals).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 8/26/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 37-74 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 124.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 2 | 20 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRAs work today consisited of: Jon Meixner operating the 345 excavator loading the off road trucks with soil for cover material. Trucks were driven by David Allen, Doug Weaver, and Josh Kincade. Material came from stock pile along east spoil area. Paul Conrod operated the 336 excavator removing soil from trench and backfilling CMP trench. Josh Kincade operated the 563 compactor, compacting soil placed in former CMP trench. In the afternoon Paul Conrod changed to the 158 Komatsu excavator and started excavating the V-trench at station 26+05. Roy Johnson changed to the 336 excavator and loaded excess soil from trench into 730 off road driven by David Allen taken to the east spoil area. Jack Johnson operated the 324 long stick excavating the V-trench from station 11+25 to 10+00. Roger Keber operated the D6K dozer grading phosphoria gulch placing berms as asked for by JB. In afternoon Roger worked shaping slopes of trench and rebuilding slope where CMP was taken out from station 19+00 to21+00. Josh Kincade also drove water truck for dust control.
In afternoon Jon Meixner worked with laser checking grade for excavator cutting V-trench. Matt Downing checked grade for 324 long stick excavating V-trench with GPS. Dan Gibson ran the 563 compacotr and the D6R rebuilding slope in trench for CMP pipe was taken out.

Production Today: 8 loads of soil from trench to Phosphoria Gulch (Code 25); 10 loads of material from trench to the east spoil area (Code 26); 14 loads from the trench to rebuilding the slope where CMP was taken out of the trench (Code 26).

Site Visitors:

Paul Kos and James Williams of Nu West .

Meetings:

After work met with James Williams and Paul Kos and discussed schedule of work.

Production Delays, Change Orders, and/or Extra Work Items:

Approval of design changes in channel (discussed yesterday); began re-cutting bottom of channel in accordance with the revised design and construction methods.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSAs on equipment fueling.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel surveying was on site setting grade stakes for wier at station 26+00 to 27+00.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 8/27/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 10-20 MPF |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 128 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 10 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRAs work today consisited of the following: Paul Conrod operated the PC158 Komatsu excavator cutting V-trench and placing bedding stone, rip rap, and cover stone. Jon Meixner checked grade with laser for Paul Conrod. Roger Kerber operated the 345 excavator loading the 740 off road trucks with soil from trench and hauled to north spoil area. The drivers were Doug Weaver and David Allen. Jack Johnson operated the 324 long stick excavating V-trench and placing filter stone, rip rap, and cover stone in V-trench at Station 26+05 to 25+50. Matt Downing checked grade for Jack. Dan Gibson operated D6R dozer gathering rocks on the hill above Dud Hollow for rip rap. Josh Kincade drove the water truck controling dust on site.

Production Today: 53 loads of soil that came from the trench and went to the north spoil area with the 740 off road trucks (Code 26); 2 loads of #2 rip rap went to sta. 26+00 to sta 25+60 (Code 17); 1 load of filter bedding same station (Code 16); 2 loads of class 3 rip rap went to same station. (Code 18); 1 load of cover rock to same station (Code 19).

Site Visitors:

Mich Hart on site to check on project progress in past week.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Rain for Rent did not show up as they said they would with the 4" pumps.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSAs on Dozers, Excavators, Loader, Trucks. Also discussed working in close quarters and communication - turn and look! Incident with excavator counterwieght contacting rippers on nearby parked dozer. Excavator worked its was up to the machine which had been parked in the work are for an extended period of time. Incident investigation and report to follow.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel surveyors was on site to verify grades of V-trench for placement of stone.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 8/28/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 45-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 3 | 126.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 11 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRAs work consisted of: Paul Conrod operating the PC158 komatsu excavating the wier and V-trench, checked by Alan of SSLTD, then placed filter bedding stone, # 2 rip rap and/or # 3 rip rap (for the wiers), aided by the 336 excavator with thumb ,operated by Roger Kerber. Jack Johnson operated the 324 excavator long stick placing filter stone from station 11+00 to 14+00, and then started placing # 2 rip rap in that segment. The 740 off road trucks and the 730 truck were driven by Doug Weaver, David Allen, and Josh Kincade, hauling soil to north spoil area, and filter bedding, # 2 rip rap, # 3 rip rap, and cover stone/void fill to both excavators. Roy Johnson operated the 966 and the 345 excavator loading stone materials. Dan Gibson operated the D6R dozer leveling spoil on the east and north spoil areas. CRA experienced a minor problem with 6" HDPE piping going from pumps to the cofferdam as the pipe fell in the creek and the joint came loose; had to take loader and crew to lift pipe and reconnect pipe again. Also had to re excavate the sumps and place a few buckets of rip rap to filter creek water so that silt would not wash in on the pump intake screens.

Production: Completed to date from sta. 26+05 to sta. 25.+50 with filter bedding one sill, one weir. Also completed from sta. 11+00 to sta. 14+00 filter bedding; sta 11+00 to sta 11+50 with rip rap. 10 loads with the 740 off road truck from the trench to the north spoil area (Code 26).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Rain twice during the day; had to wait approx. one hour for rain delay.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed past incidents and how we can avoid any more moving forward.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel surveying on site to set and verify grades for V-trench. Rain for Rent brought two pumps to the site and set up dual pumps with float system.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 8/29/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 38-71 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 53 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Roger Kerber and Jack Johnson operated the 345 excavator and the 336 excavator, respectively, loading rock up on top of the hill into the 740 off road truck driven by Doug Weaver and the 730 off road truck driven by Paul Conrod hauling rock down to the Grizzly. Material was staged by the Grizzly on the west side of the road. Roy Johnson operating the 966 loader fed rock over the Grizzly and stockpiled material for pick up later. Because of schedule concerns work was preformed today on Sunday.

Production: 40 loads of rock hauled off the slope above Dud Hollow to the Grizzly.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered spotting of trucks on narrow/elevated haul roads.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 8/30/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | AM Rain | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 37-68 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 134.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 12 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of: Paul Conrod operating the 158 komatsu excavator, excavated V-trench soil and hauled to spoil area south of sed pond, to use as cover material, with Jon Meixner running laser to check grade. Worked from Sta 25+50 to 24+80, approx, completing V-trench and one pool/weir structure. Roger Kerber operated the 336 excavator to pickup spoil and load into 740 off road trucks driven by David Allen and Josh Kincade, who also hauled the filter bedding stone, # 2 rip rap, and the cover stone material. Jack Johnson operated the 324 excavator long stick along with the 730 off road, driven by Doug Weaver, placing the different types of stone from 11+00 to 14+00. Roy Johnson operating the 966 loader loading the trucks with filter stone and 3" minus cover stone (river rock). Dan Gibson operated the 345 excavator loading the trucks with heavy rip rap.

Production Today: Installed 70-ft. of V-trench from 25+50 to24+80, including wier at station 24+72. Also completed V-trench from station 11+00 to 14+00 with filter stone, rip-rap (#-2), and cover stone (3" minus river rock) over rip-rap.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM: Request a spotter when working in close quarters or when backing close to edge. JSAs on Loader, Dozer, Off Road Trucks, and Heavy Equipment (General).

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Survey on site to verify and document grades of V-trench before placement of rock.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 8/31/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | AM Rain | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 37-68 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 134 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 12 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today consisted of: Paul Conrod operating the PC158 Komatsu excavating the V-trench with Jon Mexiner checking grade with the laser. Roger Kerber operated the 336 excavator, rough cutting grade in front of the PC158 so that it would not have to move so much material. Roger loaded material into 730 off road truck, driven by David Allen, and hauled to north spoil area. Dan Gibson operated the 345 loading rip rap when needed. Jack Johnson operated the 324 excavator excavating V-trench from station 3+ 30 to 4+75. Doug Weaver drove the 740 off road truck and hauled material to the north spoil area for Jack. Josh Kincade drove the water truck to control dust on site and operated grader blading site roads. Roy Johnson operated the 966 loader loading filter rock and void fill materials. Excavators working in trench also placed layers of filter stone, rip rap, and void fill.

Production: Excavation of V- trench from station 24+72 to 23+88; completing one wier and all layers of stone for approx 84 LF. Also hauled 14 loads soil to north spoil area with 730 off road truck (Code 09). Jack Johnson excavated V-trench from 3+30 to 4+75 (145 LF) with 11 loads of soil going to north spoil area in 740 (Code 09).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered JSA's on heavy equipment, cold stress, and slips/trips/falls.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

SSLTD onsite with a one man crew to verify subgrade and shoot as-builts.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 9/1/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | AM Rain | Wind: | 10-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 37-68 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 135 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 13 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work for today was as follows: Roger Kerber operated the 336 excavator loading the 740 off road truck, driven by Doug Weaver, with soil from the V-trench, hauling soil to the north spoil area. Paul Conrod operated the PC158 Komatsu cutting V- trench while Jon Meixner checked grade with laser for sub grade and different levels of rock. Roger Kerber also placed the rip rap in the V- trench. Dan Gibson operated the 345 excavator loading rip rap in 740 truck for placement in channel. Josh kincade drove water truck for dust control. David Allen's 730 truck was down for repair of flat tire, so he worked with the trench crew. Evans Range Reclamation delivered 70 rolls of Type 3B ECM, which CRA unloaded. Jack Johnson operated 324 LR excavator placing filter stone, rip-rap, and cover stone. Roy Johnson operated the 966 loader bringing rock to the stone box for Jack to use.

Production: in the south end of trench (downstream); Station 23+88 to 22+89, placement of filter bedding, rip-rap, wier, and cover stone. On north end of trench (upstream) Jack placed filter bedding stone from station 3+20 to 4+75, also placed rip- rap form station 3+30 to 4+20. Soil material excavated from south end of trench was 18 loads of soil from V-trench and above hauled to the north spoil area (Code 09).

Site Visitors:

Guy Jonstone of CRA onsite late in the day. ERR delivered Type 3B ECM. WSECo mechanic onsite to fix safety switch on water truck. Les Schwab of Pocatello onsite to fix tire on the 730 off road truck.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Production delay: 730 off road truck ran over rebar and will need tire replaced. Truck down all day.

Safety tail gate meeting:

TGSM: Sling inspection, Truck speed, Hurrying to complete task.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Survey on site to check grades of V-trench before placement of rock.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 9/2/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 29-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 107 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 13 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work consisted of :Paul Conrod operated the PC158 Komatsu cutting the V-trench from Station 23+88 to 23+04. Jon Meixner checked grade with the laser. Roger Kerber operated the 336 excavator loading the 740 off road truck, driven by David Allen, hauling material to north spoil area. Also hauled back stone materials to the V-trench which Roger spread with the 336 excavator. Dan Gibson operated the 345 excavator loading stone materials. Jack Johnson operated the 324 long stick excavator placing rip rap and cover rock. Roy Johnson operated the 966 loader shuttling Jack stone materials to his stone box for the different layers. Josh Kincade drove water truck for dust control. Matt Downing used the GPS for checking grade in the V-trench from Station 3+20 to 4+65; placed layers of stone through this segment and continued excavating V- trench up to station 5+35. Hauled 5 loads to north spoil area with loader.

Production: Cutting V-trench from Sta 23+88 to 23+04 (84 LF); completed Weir# 4; completed layers of stone from 4+20 to 4+65 (45 LF); excavated V-trench from Sta 4+20 to 5+35 (115 LF)

Site Visitors:

Les Schwab Tire onsite to replace tire on 730 off road truck.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Production delay: only had one haul truck operating today.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM: School is in session - Drive Slow. Reviewed July's Incident log/safety matrix. Also covered cold stress - Cold weather is coming so carry extra clothes.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

SSLTD onsite with a one man crew to verify subgrade and shoot layers of rock.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 9/3/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-74 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 9.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's crew was off for the labor day holiday. Had one man onsite to fuel the four-inch diesel pumps, maintain site security, etc. Completed weekly paperwork and sent to Kalamazoo Office.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 9/4/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 5-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 9.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's crew was off for the labor day holiday. Had one man onsite to fuel the four-inch diesel pumps, maintain site security, etc. Completed daily reports and other paperwork and sent to Kalamazoo Office.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 9/5/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-69 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 16 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's crew was off for the labor day holiday. Had two men onsite (alternating) to fuel the four-inch diesel pumps, maintain site security, etc.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 9/6/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-68 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 11 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's crew was off for the labor day holiday. Had one man onsite to fuel the four-inch diesel pumps, maintain site security, etc. Had second crew member come out to site to troubleshoot pump that would not start on auto. Completed daily reports and other paperwork and sent to Kalamazoo Office.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 9/7/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 29-71 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 9.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's crew was traveling back to the site from the labor day holiday. Had one man onsite to fuel the four-inch diesel pumps, maintain site security, etc. Completed daily reports and other paperwork and sent to Kalamazoo Office.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 9/8/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 29-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 10 | 117.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Paul Conrod operated the PC158 Komatsu cutting the V-trench from Station 23+04 to 21+52. Jon Meixner checked grade and did layout with the laser. Roger Kerber operated the 336 excavator loading the 740 off road truck, driven by David Allen, hauling material to north spoil area. Also hauled the stone material to the V-trench which Roger spreading with the 336 excavator. In the morning Paul Conrod and David Allen put up silt fence that Smith Construction had ran over with their loader in Phosphoria Gulch (1.5 hrs). Grader and water truck work on forest service road for three hours as trucks hauled yesterday and tore it up. Jack Johnson operated the 324 long stick excavating V-trench from station 6+00 to 7+80. Placed filtier bedding at stations 15+00 to15+60. Roy Johnson operated the 966 loader bringing stone to the stone box. Josh Kincade drove water truck controling dust on site. Dan Gibson arrived late in the day as he had truck problems traveling back to the site from home. Doug Weaver and David Allen drove the 740 and the 730 off road trucks hauling spoil from trench and stone to 336 excavator to spread back in trench.

Production today was from: Excavation from Sta. 5+30 to 7+80 cutting the V-trench and shaping for subgrade (Code 09); Placed filter bedding stone from Sta. 5+00 to 7+00 (Code 16); Excavation of V-trench from Sta. 23+04 to 21+52 (Code 09); Placed filter stone, 6 to 12" rip rap and 3" minus cover stone in same stationing (Code 16, 17, 18 and 19). Hauled 29 loads of spoil from V-trench to Ore area to cover elemental phos. and remenants of ore south of sed basin (Code 09).

Site Visitors:

Jim Lovell with Con-Fluence (stream consultant) to observe rip- rap placement and weir installation. Mr. Lovell overall satisfied with the installation. Mechanic was out to repair the water oil separator on the CAT 345 excavator.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Watch for wildlife along the sides of roadways. Also discussed STAR process and work task pre-planningt.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 9/9/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cldy-Rain | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-60 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 105.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 11 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon Mexiner operated the PC 158 Komatsu excavator cutting and shaping V-trench. Allan Roberts checked grade and did lay out from Scherbel Surveying. Paul Conrod operated the 336 excavator loading the off road trucks and hauling spoil to the phos containment area to use as cover material. Doug Weaver drove the 730 off road truck and David Allen drove the 740 off road truck. Also some of the spoil material will be used to dress up the Ore area in Phosphoria Gulch. Roger Kerber operated the D6K dozer shaping slopes of trench. Dan Gibson operated the 345 excavator loading off road trucks with rip rap for both north and south work areas. Jack Johnson operated the 324 long stick placing rip rap from station 7+80 down station to station 6+00. Doug Weaver hauled rip rap to Jack with the 730 off road truck. Josh Kincade drove the water truck for dust control and also cut matting to place behind rip rap.

Rain started this morning shutting operation down at 4:00 pm. Talked with JB and will keep two men on watch for the pumps. Als we had a mechanic welding on the 966 Loader bucket. At 7:30 pm will switch two other employees to watch the pumps if it is still raining and someone can be fire watch while mechanic is welding on the bucket.

Production: From station 6+00 to 7+80 placing rip-rap (Code 18); Up to Sta 21+36 (from the south) excavated V-trench, placed filter stone, rip-rap, and 3" minus cover stone (Code 16, 17,18, & 19); Off road trucks hauled 29 loads of spoil to the ore area south of the sed. pond (Code 09).

Site Visitors:

Mechanic from WSECo on site to repair 966 bucket (weld cracks in bucket)

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Rain slowed production - work shift ended at 4:00 PM.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

We are going into flu season - if you are not feeling well, you should stay home and not expose other employees. JSA's on equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 9/10/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cldy-Rain | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-60 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 132 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 14 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon Mexiner operated the PC 158 Komatsu excavator cutting and shaping V-trench. Alan Roberts (SSLTD) checked grade, did layout, and shot as-builts. Paul Conrod operated the 336 excavator loading the 730 off road trucks and hauling spoil to the phosphorous containment location to use as cover material. Doug Weaver drove the 730 off road truck and David Allen drove the 740 off road truck. Roger Kerber operated the D6K dozer leveling spoil material over the buried phos material. Measurements were taken of the size of the vault and concrete will be placed over vault next Tusday per JB. Josh Kincade operated the 345 excavator loading rip-rap into the off road trucks to take to the excavators to spread in trench. The 336 excavator also was used to spread stone in trench. Jack Johnson operated the 324 long stick placing rip-rap and cover stone. Matt Downing used the GPS to do layout and set lift stakes. Roy Johnson operated the 966 loader bringing stone to the stone box for placement.

Production: Sta 4+75 to station7+00 leveling rip-rap and placing cover stone over rip-rap. On the south end of the work area from Sta 21+36 to 20+52 (84 LF - This includes all layers of stone). 31 loads of spoil with the off road trucks from the trench went to the ore stock pile area south of sed. pond for cover material (Code 09).

Site Visitors:

Mechanic from WSECo on site to repair 966 bucket (weld cracks in bucket)

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Rain slowed production.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered incident at CRA project at Agrium CPO W Cooling Pond (truck backed into forklift) - do 360 walkarounds and inspections.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 9/11/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-12 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-62 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 146.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 14 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon Mexiner operated the PC 158 Komatsu excavator cutting and shaping V-trench. Alan Roberts checked grade and did lay out from Scherbel surveying. Paul Conrod operated the 336 excavator loading the 730 off road trucks and hauling spoil to the Phos location to use as cover material. Doug Weaver drove the 730 off road truck and David Allen drove the 740 off road truck loading and hauling spoil to the south to cover phos pile. Also some of the spoil material will be used to dress up the ore area in Phosphoria Gulch. Roger Kerber operated the D6K dozer leveling the north spoil area, filling in area that containe slag, and soil that was thought to have fuel oil in (Approval was given to bury material by J.B. after tests were completed and results recieved). Jack Johnson operated the 324 long stick building back benches along rip-rap after matting was placed along rip-rap. Roy Johnson operated the 966 loader bringing soil to the 324 long stick and loading trucks with stone as needed. Josh Kincade operated the 345 excavator loading off road trucks with rip rap. Brian Pitts and Kevin Bumgarder come and work today and help with installing erosion matting along rip rap benches.

Production: Place Type 3B ECM against rip rap and build bench back to slope, Sta 3+20 to 7+00 on one side of trench. Excavate V-trench from station 20+52 to 19+68, 84 L.F., and place filter bedding, #2 rip-rap, wier stone and #3 rock, and cover rock/void fill. Hauled 26 loads of spoil from trench to south of sed pond to cover ore material.

Site Visitors:

Robertson Supply delivered 15 3,000 lb supersacks of Wyo-Ben 3/8" granular bentonite for CMP crossings and utility abandonments.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Review CRA August Safety Matrix. Also covered JSAs for equipment, spotting, driving, fueling, and placing rock.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 9/12/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cldy-Rain | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 40-60 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 0 | 4 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 14 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Had one man onsite to check bypass system pumps and fuel.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 9/13/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cldy-Rain | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 130 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 13 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon Mexiner operated the PC 158 Komatsu excavator cutting and shaping V-trench. Alan Roberts of SSLTD checked grade and performed layout work as required throughout the day. Paul Conrod operated the 336 excavator loading the 730 off road truck driven by Doug Weaver hauling spoil to the area where the ore material had been stockpiled (south of sed basin) to use as cover material. Jack Johnson operated the 324 long stick building bench along rip rap at the upstream end of the channel, with Matt downing checking grade with GPS. Roy Johnson operated the 966 loader bringing soil to the stone box for Jack to use for building bench. Roy also operated the 345 excavator loading rip rap as needed for trench, as well as loading filter stone and cover stone / void fill into the 730 off road truck as needed. Roger Kerber operated the D6K dozer on leveling the spoil material on the south spoil area. Josh Kincaide and David Allen installed ECM along the rock/bench. Josh also operated the water truck as required. David also operated the 740 truck hauling stone materials and excess soil.

Production Today: Installed Type 3B ECM against rip rap (Code 23) and built bench back to slope, from Sta 3+20 to Sta 6+00; 280 LF (Code 09) Installed 380 LF Type 3B ECM from Sta 3+20 toSta 7+00 (Code 23). Crew on south end worked from Sta 19+68 to Sta 18+84; 84 LF with all layers of stone complete in this segment (Code 16, 17, 18, & 19). Excavated and hauled 7 loads of trench spoil to south spoil area from Sta 19+68 to Sta 18+84 for cover material (Code 09).

Site Visitors:

Hauling contractor for Ferguson delivered two (2) 40 LF sticks of 12" DR11 HDPE for CMP crossing drains.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed ECM installation and walking on rip rap. Also reviewed rock placement JSA.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew to verify subgrade and shoot as-builts.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 9/14/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 133.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 13 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon Mexiner operated the PC158 Komatsu excavator cutting and shaping V-trench, with Alan Roberts of SSTLD checking grade and shooting subgrade/finished rock. Paul Conrod operated the 336 excavator loading the 730 off road truck, driven by Doug Weaver, hauling spoil to the area where the ore material had been stockpiled to use as cover material south of the sed basin. Jack Johnson operated the 324 long stick building bench along rip rap with Matt downing checking grade with GPS. Roy Johnson operated the 966 loader bring soil to the stone box for Jack to use for building bench. Roy also operated the 345 excavator loading rip rap as needed for trench. He also loaded filter stone and cover stone into the 730 off road truck as needed with the loader. Roger Kerber operated the D6K dozer, leveling material on the south spoil area that was hauled by the 730 off road truck. Jack Johnson also placed filter stone, rip-rap and cover stone from station 7+00 to 7+60. Josh Kincade and David Allen installed Type 3B ECM from Sta 26+05 to Sta 23+00 next to riprap on both sides of trench. Josh and David also operated the water truck and haul truck, respectively. Roger Kerber also operated the road grader shaping area north of slurry pit.

Production today was place filter bedding stone, rip rap,and cover stone from Sta 7+00 toSta 7+60 (Code 16,18, & 19). Built bench along rip rap from Sta 6+00 to Sta 7+00 (Code 09). Crew on south end excavated V-trench from Sta 18+84 to Sta 18+00 with all stone materials being placed afterwards, 84 LF completed (Code 16, 17 ,18 & 19). Hauled 5 loads of spoil from V trench to south spoil area for cover material (Code 09). Installed Type 3B ECM from Sta 26+05 to Sta 23+00 (Code 23).

Site Visitors:

None

Meetings:

Discussed project staffing with JB - he was concerned CRA was short staffed - CRA working on getting assistance for installing ECM. Discussed schedule as well - CRA anticipates completing project by second week of October.

Production Delays, Change Orders, and/or Extra Work Items:

Production was slowed today due to not having operators for both trucks and trying to stay ahead of 324 building bench by installing erosion mat.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Group forum/Participation: discussed comunication when approching from blind side of a piece of equipment. Take 15 minunte brake when working 12 hr. days in afternoon - per J.B.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 9/15/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 33-71 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 133 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 13 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon Meixner operating the PC158 excavator cutting the V-trench in channel. Paul Conrod operated the 336 excavator placing bedding stone, riprap, and cover stone, plus excavation in V- trench. Material excavated was loaded into 740 off road truck, driven by Doug Weaver, and hauled to south spoil area. Roy Johnson operated the 966 loader to load stone materials into off road truck. Jack Johnson operated the 324 long stick placing filter bedding, rip rap, and cover stone from Sta 7+00 to Sta 7+80. He also built benches from Sta 7+00 to Sta 7+80. Roger Kerber operated the 345 excavator placing rip rap in phosphoria gulch for drainage ditch as requested by JB (extending drainage into rock borrow and adding additional rock to area left bare in 2009). Josh Kincade and David Allen worked at placing Type 3B matting along rip rap to build benches. In the afternoon crew cut pipe and installed 30 LF 18" CMP in Tank Spring trench and backfilled with Dud Hollow fill, compacted in 1' lifts over and around CMP culvert. Also cleaned up area east of sed pond, dead trees, and etc. Poured 7.5 CY of 3,000 PSI concrete today: 6.5 CY over vault containing phosphorus (septic) and 1.0 CY in Tank Spring drop inlet.

Production: place filter bedding stone, rip rap,and cover stone from Sta 7+00 to Sta 7+80 (Code 16,18, and 19); Placed bench along rip rap Sta 6+00 to Sta 7+80 (Code 09); Crew on south end excavated V-trench from Sta 18+00 to Sta 17+30 with all stone materials being placed - 70 LF - with two wiers and all stone layers for this stationing (Code 16, 17, 18 , and 19); Placed 170 LF of rip rap in Phosphoria Gulch drainage requested by JB (Code 25). Placed 30' of 18" CMP in tank spring trench (Code 24); Poured 1.0 CY of concrete in manhole at Tank Spring (Code 10); Poured 6.5 CY of concrete to cover vault of phosphorous material (Code 27).

Site Visitors:

Mitch Hart (Agrium) and Matt Smith (Agrium). Rain for Rent mechanic onsite to look at 4" diesel trash pump with bad seal.

Meetings:

Dan, JB, and Mitch met to discuss project staffing, schedule, and budget. Also set a tentative date to release the creek into the new channel on October 5 - JB and Dan to confirm. Mitch will notify the appropriate agencies who want to be onsite at that time.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed housekeeping and cold weather work. Discussed JSA on mobile equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 9/16/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 29-74 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 133 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 13.5 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 3 | 42 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon Meixner operating the PC158 excavator cutting V-trench, shaping slopes for stone placement. Paul Conrod operated the 336 excavator excavating V-trench material, loading 730 off road truck, driven by Doug Weaver, who hauled material from trench to south spoil area, south of sed pond. Jack Johnson operated the 324 long stick shaping rip rap from station 12+00 to 14 +00. Also built benches along side of rip rap, from station 12+00 to station 14+00. Matt Downing used the GPS for checking grade on stone layers with Jack Johnson. Roger Kerber operated the 345 excavator shaping tank spring trench and placing filter bedding and rip rap. David Allen drove the 740 off road truck hauling trench material to south spoil area, and also brought the bedding material and the rip rap to the 345 for placement. Josh Kincade operated the D6K dozer leveling south spoil area and the water truck controling dust on site. Roy Johnson operated the 966 loader loading 740 and the 730 off road truck with filter stone, rip rap, and cover stone, which were driven by Doug Weaver and David Allen.

Production: placement of stone from station 17+30 to 16+50, placing all layers of stone (filter bedding, rip rap, number three rock, and cover stone, with two wiers). Also worked on today was rip rap from station 12+00 to 14+00 and placement of benches at same stationing. Placement of bedding, and rip rap in tank spring trench. Installation of service road, from north end of slurry pit around to the south to connect up with road to phosphoria gulch (ended at stockpile in front of office trailer).

Site Visitors:

Jim Betty of WSECo onsite to close out rental agreements and check on equipment issues.

Meetings:

Discussed tank spring channel with JB - will cut 2:1 slopes in a V-trench and place rock in the bottom for a 2' flow depth. Place 1' of rip rap and 0.5' of filter base in the new trench. Road around slurry pit 20' wide and minimum 0.5' in depth - deeper if necessary to drain properly.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered mobile equipment and vehicle safety.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 9/17/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 36-71 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 146 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 14.5 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon meixner operated the PC158 excavator cutting V-trench at station 16+50 to 16+10. Paul Conrod operated the 336 excavator cutting V-trench, loading 730 and the 740 trucks, driven by Doug Weaver and David Allen, hauling soil to the south spoil area. Brian Pitts operated the 966 loader loading stone for backfill. In the afternoon Brian changed to the compactor and compacted all spoil areas in preparation for hydroseeding. Roger Keber operated the D6K dozer shaping phosphoria gulch. In the afternoon he went on 140H grader and bladed spoil areas. Also in the afternoon Jon Meixner operatored the 345 excavator excavating trench at station 8+00 to 8+30 exposing the CMP, and haul trucks hauled soil to east spoil area. Roy Johnson worked cutting CMP at downstream crossing and ran loader in afternoon loading stone and rip rap for V-trench. Josh Kincade stood fire watch and drove water truck to control dust.

Production: Station 18+00 to station 18+30 excavating soil hauling to south and east spoil areas, excavating and placing stone from station 16+50 to station 15+84 (Code 09). Layers of stone were placed at this stationing (Code 16, 17, 18, & 19).

Site Visitors:

Ken Daniels of Rocky MTN Fence Co.

Meetings:

JB and Dan met with Ken Daniels of Rocky MTN Fence Co regarding fence locations, material requirements, and installation requirements. Ken anticipates installing line, gate, and corner posts next week, with fence fabric the following week.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered mobile equipment and vehicle safety.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 9/18/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Sunny | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 35-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 13 | 132.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 4 | 20 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jon meixner operated the PC 158 excavator cutting V-trench from station 16+50 to 16+10. Paul Conrod operated the 336 excavator rough cutting V-trench, loading 730 and the 740 trucks (driven by Doug Weaver and David Allen) hauling spoil material to east spoil area. They also hauled filter stone, rip rap , number three rip rap, and cover stone to trench which was placed from station 15+84 to 15+30. Roger Kerber along with Brian Pitts, Josh Kincade, Matt Downing, and Kevin Baumgardner, directed traffic while the new 18" CMP for Syncline Spring was installed accross the USFS road; installed 80LF. Performed excavation in segments as to not close road; built temporary detour to west for traffic to avoid cut. Backfilled with bulk select fill and compacted backfill with plate/smooth drum compactor. Replaced road gravel and compacted as well.

Jack Johnson worked at installing support pipe for by pass piping system where it crosses the chennel cut at the upstream end. Also placed top soil on slope from station 3+35 to 7+50 (west side). After Syncline Spring CMP was installed, Roger went on grader and Kevin back on the D6K leveling spoil material on east landfill. Roy Johnson operated 966 loader, loading trucks with filter stone, rip rap, number three stone, and cover stone. ERR onsite to begin hydroseeding north spoil area.

CRA Production today was from station 15+86 to 15+30 (58 LF) excavating V-trench and backfilling with filter stone, rip rap, number three stone, and cover stone in this same stationing (Code 16, 17, 18, & 19). Excavation of V-trench, 6 loads of spoil went to the east land fill (Code 09). Installed 80 LF of 18" CMP on forrest service road (Code 24).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSAs on Dozer,Loader Off road trucks.Excavators, Fueling, Spotting and driving.

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 9/19/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 41-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 3 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Roy Johnson onsite to fuel pumps and check on bypass system. No other work performed onsite.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 9/20/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-to-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 33-71 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 145 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 13 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 2 | 16 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued cutting V-trench with PC158 excavator operated by Jon Meixner. Paul Conrod operated the 336 excavator also excavating V-trench loading the 730 truck (driven by David Allen) and the 740 off road truck (driven by Doug Weaver) hauling spoil to east (C&D) landfill. Trucks brought filter stone, rip rap, number rip rap/rock, and cover stone to back fill V-trench. Jack Johnson operated the 324 excavator placing filter stone and rip rap on slope under 18" pipe in channel for syncline spring culvert. Roy Johnson operated the 966 loader, loading trucks with rock materials. Josh Kincade drove the water truck to control dust on site. Roger Keber operated the 345 excavater and placed 12" HDPE pipe in CMP, at station 18+00, for the downstream crossing/drain. Also placed rock/soil plug, set plywood form, and set bentonite bags in preparation for concrete delivery in the morning. Brian Pitts and Josh Kincade also assisted with the crossing construction. In afternoon Brain Pitts went on D6K and worked on shaping/grading Dud Hollow along with Roger Kerber on the 345 excavator. The excavator buried tress near the top of the borrow area and began to re-establish USFS roadway.

Production today was excavating V-trench from station 15+30 to 14+50 - hauled 9 loads of spoil (Code 09); Completion of all layers of stone materials in same segment (Codes 09, 16, 17, 18, & 19); Placement of 40 LF of HDPE pipe in the CMP pipe at station 18+00 (Code 14); Placement of 35 LF X 6 FT of rip rap under pipe from Syncline Spring (Code 16 & 18). Placement of rip rap in ditch by south spoil area - 90 LF left bare in Phase I - requested by JB/Paul Kos (Code 18); Graded slope on west side of trench from station 7+00 to 3+00 with top soil over slag (Code 20).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Watch -out for dogs of sheep herders not friendly. JSAs on Dozer ,Loader,Excavator,Spotting and fueling.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.Evens Range Reclamation on site with two men,had moter prolems with seeder.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 9/21/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-to-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 148.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 7 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Paul Conrod operated the 336 excavator loading trucks from ramp of trench near Sta 14+50. Spoil material was taken to north of concrete pad at JB's direction to fill low area where rock materials had been stockpiled. Jack Johnson operated the 324 long stick shaping benches from Sta 26+00 to 20+00 on the east side of channel. At noon, Jack started placing filter bedding from Sta 14+00 to 14+50 and rip rap. Jon Meixner operated the PC158 excavator installing benches at sta. 21+00 to 18+00 and grading slope to meet grade where slope needed to be built back from septic tank removal last month. Roger Kerber operated the 345 excavator uncovering entrence to tunnel to concrete shut. Concrete delivered at 10:00 AM for 5' plug at downstream crossing/abandonment (approx 4.0 CY). The remainder of that load and another load (approx 14.0 CY) placed to cover tunnel entrance near Sta 18+00, uncovered yesterday.

Paul Conrod also cut inlet at Sylcline Spring to divert water into new pipe. Installed filter rock and rip rap at inlet (18" total). Flow to existing concrete pipe was blocked with a dam and the pipe was grouted shut (bentonite seal and backfill to follow). The downstream end in the channel slope was crushed flat and covered. Roger Kerber later went to grade slope on west side of forest service road south of Dud Hollow. Roger re-established access road through borrow area, cutting bench approx 12' wide and tracking in with 345 excavator to ensure stability. Roy Johnson, BrianPitts, and Paul Conrod moved 4" pumps, hoses, pipe, spill gaurd, etc to the north, inorder to excavate soil from cross-over and build west slope of channel at the tie-in point. Josh Kincade drove water truck for dust control.

Production: spoil from trench 37 Loads (Code 09); Installed 50 LF of filter bedding, rip rap, and cover stone, Sta 14+00 to 14+50 (Code 16,18, & 19); Also filter stone and rip rap (10'X10') at syncline inlet (Code 16 & 18). Benches built on east side of V-trench from Sta 26+00 to 19+00 (Code 09); Slope on west side of forest service road grading being worked on. (Code 04); Concrete for tunnel abandonment placed, 14 cubic yards (Code 10); Concrete for crossing placed, 4 cubic yards in CMP at Sta 19+50 (Code 14); Excavation of trench from Sta 12+00 to 9+00 (Code 09).

Site Visitors:

Doug Tanner with the IDEQ and Carol Coll with Northwind onsite to inspect and meet with JB. Sales representatives from Rain for Rent onsite to see how bypass system and pumps were functioning.

Meetings:

Discussed Syncline Spring with JB - abandon (grout/bentonite) inlet to existing pipe and bury outlet in slope. Also, cut small trench into pond/low area that receives Sycline Spring flow from the west and connect with rip rap area at new CMP inlet. Also, adjust rock apron on 18" CMP outlet to have more of a V shape - CRA completed and JB accepted. JB and CRA witnessed tunnel abandonment and first crossing construction - JB approved, but need to make sure there is a full bentonite seal to encapsulate concrete and end of pipe/tunnel to ensure no leaks develop.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSAs on equipment, Do the 360 walk around.Use the STAR!

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 9/22/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-to-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 11 | 121.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA's work today was to backfill CMP pipe with bentonite, fabric, and soil, then compacted with 563 compactor, at Sta 18+00. The 336 excavator, operated by Paul Conrod, placed the soil while Brian Pitts operated the 563 compactor. Roger Kerber operated the 345 excavator loading the 740 and 730 off road trucks, driven by David Allen and Doug Weaver, excavating material and hauling to spoil area south of road that goes up to phosphoria gulch to re-shape slope. Josh Kincade drove water truck to control dust on site. Jack Johnson and Jon Meixner, operating the 324 long stick and the PC158 excavator, respecitvely, shaping slope and building benches along trench from Sta 23+00 to 18+00.

Production today was placement of bentonite over CMP (1.5 bags), place filter fabric, and soil, then compaction on CMP at station 18+00 (Code 14); Also backfilled tunnel excavation with bentonite (3 bags), filter fabric, and soil (Code 10); Excavated trench from station 8+00 to 12+00 to bench elevation, material went to spoil area south of Phosphoria Gulch access road - 73 loads (Code 09); Shape slopes and build benches from station 23+00 to 18+00 (Code 09).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

JSAs on Dozer, Loader, Excavator, Spotting and fueling.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 9/23/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-to-10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 122.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | 4 | 20 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | 1 | 5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jack Johnson operating the 324 long stick worked at installing benches and shaping slopes from Sta 18+00 to 23+00. Paul Conrod operating the 336 excavator,started excavating at invert of cmp pipe to place concrete in pipe. Roger Kerber operating the D-6-K dozer worked on pushing soil to 345 excavator, operated by Jon Meixner, in channel at station 12+00 to 8+00 who loaded material into the 740 and 730 off road trucks, driven by David Allen and Doug Weaver, who hauled material to spoil area south of phosphoria road. Brian Pitts and Josh Kincade worked at placing erosion control matting at station 12+00 to 18+00. Also drove water truck for dust control. Brian Pitts also operated 563 compactor, compacting backfill over tunnel entrance. Rocky Mountian Fence Co. was out today to set post for fencing at north end of site.

Production: Excavated trench from station 8+00 to 12+00 and hauled 36 loads of material to spoil area south of Phosphoria Gulch Road (Code 09); Excavated/expossed CMP pipe near inlet for approx 60 LF to the south for placment of concrete plug/abandonment (Code 15); Built benches and shaped slope, Sta 18+00 to 23+00 (Code 09); Transfered 11 loads of rip rap from the west side of trench to the east side of trench for access one channel is cut (Code 18).

Site Visitors:

James Williams with Nu-West/Agrium onsite for a visit.

Meetings:

Discussed Syncline Spring 18" CMP with JB and James Williams. There appeared to be a leaking joint letting water out of the pipe before it reached the outfall. CRA to expose the pipe and repair the leaking joint. There also appeared to be water seeping out of the inlet basin - CRA to remove rock and line with bentonite once the pipe is reworked.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Watch for pinch points, correct lifting for ground work, request spotters when needed, etc. JSA's on equipment, dozers, loaders, excavators, off road trucks, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Rocky Mountian Fence Co. onsite in the afternoon to mobilize and beign augering holes for fence posts (four man crew). Crew training on site requirements prior to the start of work.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 9/24/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 10-to-20 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-72 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 8 | 82.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 2 | 10 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | 2 | 19 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at excavating down to subgrade in trench from station 12+00 back to station 9+00, with Jack Johnson operating the 324 long stick loading the spoil material into the 730 off road truck, driven by Doug Weaver, who took the material to the south spoil area along phosphoria gulch access road. Roger Kerber operating the 345 excavator, excavating material between station 9+00 and 8+00. He also cleaned out soil from in front of CMP at the crossing/abandonment locations. Brian Pitts and David Allen worked on cleaning out pipes and placing filter fabric, bentonite, and steel plates/blind flanges along with Roy Johnson who worked at cutting the CMP pipe and access holes for steel plates, concrete placement, etc. Part of CRA crew traveling home for rotation home this weekend.

Production today was preparing CMP for concrete next Monday (Code 14 and 15); Grading and excavating to subgrade for stone layers from Sta 12+00 to 8+00 - 10 lods hauled (Code 09).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Care to be taken when walking on slopes.JSAs on equipment,dozer, loader, excavators, trucks,pinch points.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Rocky Mountian Fence on site to set line, corner, and gate posts. Evans Range Reclamation on site doing seeding; only worked a few hours and quit due to equipment problems.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 9/25/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5 to 10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 27-to-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 8 | 82 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 3 | 30 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA worked at reworking 18" CMP for Syncline Spring that crosses the forest service road. CRA took pipe out, replaced bedding material, and compacted. Pipe was then replaced with joints reassembled with roofing tar in bands for additional sealing (not required by manufacturer), backfilled and compacted with plate compactor and smooth drum, (CAT 533). Roger Kerber, Brian Pitts, and David Allen worked on reworking the pipe and the inlet basin. Jack Johnson operating the long stick, with Roy Johnson using the torches, and Doug Weaver installed steel plate/blind flange and filter fabric, bentonite, and soil at the end of CMP on northend of site.

Production: Excavating and reinstalling 18" CMP that crosses USFS road (Code 24); Installed steel plate/blind flange on end of CMP, placed filter fabric, bentonite, and soil. Cut holes in top of CMP for openings to place concrete (Code 15); Excavated and hauled 5 loads of material from trench (Code 09).

Site Visitors:

None

Meetings:

none

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed small sub-contractors (fencing and hydroseeding) and watching that they do things to ensure they work in a safe way. JSAs on excavator, loader, dozer, and trucks. Also discussed equipment fueling, spotting, and driving.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Evans Range Reclamation onsite to seed and mulch various disturbed areas - worked on north spoil area.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 9/26/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-to 10 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 27-to-70 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 12.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA had one employee on site today to fuel pumps and check water lines and security for site.

Production: None

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 9/27/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 26-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 8 | 81.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 1 | 9 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jack Johnson placing bedding stone and rip rap in trench from station 12+00 to 9+00. Doug Weaver hauled rip rap from west side of trench to east side where placement was being done, driving the 730 off road truck. Roy Johnson operated the 966 loader to bring stone to excavator from the stock pile. Roger Kerber operated the 345 excavator, excavating soil from trench Sta 3+20 to 0+00 and placing material on other side of 18" bypass pipe to build back slope upstream of CMP inlet. Brian Pitts operated the D6K dozer to level material in trench and David Allen operated the 563 compactor, compacting the fill, in one foot lifts. At 1:00 PM the concrete pumper truck arrived and Roger Kerber, David Allen, and Brian Pitts helped with placement of concrete, delivered by Staker Parsons.

Production: placement of bedding stone (Code 16) and rip rap (Code 18) from Sta 12+00 to 10+00; Install concrete in CMP pipe at inlet for 50' and at crossing at both sides (Code 14 and 15) - total cubic yards placed was 59 CY 3,000 PSI concrete; Excavate trench from Sta 0+00 to 3+20 - partial - 200 CY (Code 09).

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed housekeeping and cold weather work. Discussed JSA on mobile equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

Sherbel Surveying on site today with one man crew to verify ditch at north end of slurry pit and begin as-builts in Phosphoria Gulch.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 9/28/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 26-75 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 120 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 5 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued rip rap and cover stone placement in the channel, with Jack Johnson operating the 324 long reach excavator downstream of the CMP crossing at the north end of the slurry pit. Roy Johnson on the 966 loader, David Allen on the 740 truck, and Doug Weaver on the 336 excavator feeding the rock materials to Jack. Once complete with that section, Jack continued building soil benches and grading slope on the east side of the channel from the south end of the slurry pit down to the downstream abandonment of the CMP. Doug Weaver also screened rip rap with the grizzly as the stockpile is running low. Roger Kerber operated the D6K dozer assisting Paul Conrod with moving soil away from the bypass pipe in order to connect the new channel to the existing one upstream of the CMP inlet.

Jon Meixner and Brian Pitts assisted with cutting the soil from beneath the bypass pipe and binding it to stiffeners (trees) that were harvested onsite by Jon and Roy. Roger and Brian also worked at backfilling the inlet abandonment and building the west channel slope to the north using a combination of native material and Dud Hollow bulk fill. David Allen delivered 13 loads of material for backfill, loaded by Doug Weaver. Jon Meixner installed topsoil over slag in the tank spring channel cut.

ERR onsite with a crew of 5 to continue hydroseeding and ECM installation. ERR had a two man crew completing Type 3B installation north of tank spring and beginning Type 2D installation in the same area. The crew also completed Type 3B installation south of the slurry pit through the upstream segment of wiers (soil benches not complete yet). Three man crew hydroseeded Phosphoria Gulch. Also used CAT 301 excavator to cut anchor trench for Type 2D ECM on upstream end of channel (east side).

Site Visitors:

Paul Kos onsite to inspect prior to channel commissioning - overall Paul was pleased with rock installation and overall construction progress. Paul had some minor unchlist items he will summarize to CRA via-email tomorrow once back in the office.

Meetings:

Developed project punchlist with JB.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed housekeeping and cold weather work. Discussed JSA on mobile equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 5 man crew (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 9/29/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-7 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 42-71 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 119.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 5 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued backfill and compaction from the CMP inlet to the north, completing it to grade and rough cutting the west channel slope from Sta 2+50 to 1+50 (approx), using dud hollow bulk material. Roger Kerber and Brian Pitts operated the D6K dozer and 563 compactor, respectively. David Allen operated the 730 truck hauling soil, loaded at the borrow by Doug Weaver with the 336 excavator; 3 loads. The 345 and PC158 excavators continued cribbing and excavating beneath the 18" HDPE bypass pipe, operated by Paul Conod and Jon Meixner, respectively. The 324 long stick, 336 excavator, and 966 loader worked at backfilling the CMP crossing near Sta 9+00, backfilling in 1-foot (max) lifts and packing with the bucket. The 730 hauled 4 loads of backfill to this area. Slope was over built and cut back to grade.

The 324 long stick and 730 truck spent the late afternoon cutting the subgrade from Sta 8+00 to 10+50, hauling off 5 loads from the trench to the area near the Phase I rock borrow. The 740 truck was used in the afternoon to haul dud hollow fill, 4 loads, driven by Josh Kincaid, to the fill area between the USFS road and the channel, from Sta 6+00 to 2+00. Roger and Brain spread the material and compacted. Josh kincaid operated the water truck and worked on punchlist items throughout the day. Roy Johnson on the 966 loader moving pipe, hauling soil, picking up scrap, etc.

ERR onsite with a crew of 5 to continue hydroseeding and ECM installation. ERR had a three man crew continuing Type 2D installation on the east side of the channel from Sta 8+00 to 4+00, and then started back on the west side, completing from 8+00 to 7+00 (approx). Used mini excavator to cut top of slope anchor trench. Two man crew continued to hydroseeded Phosphoria Gulch. JB and CRA discussed with ERR in the morning the ECM expectations (installation req's), schedule, etc.

Site Visitors:

Mitch Hart onsite at the end of the work shift for a breif status update.

Meetings:

Discussed bypass piping and channel completion at tie-in to north. CRA continued cribbing and excavating beneath 18" bypass pipe, but JB expressed concerns about sagging in pipe across channel. JB and CRA decided to complete channel (rock) in all areas except directly under the bypass pipe. On Oct 6, CRA can cut the pipe near Sta 2+00 and place the pipe in the trench and continue discharging at that point. Then, the short section of channel where the pipe crossed can be completed and the remainder of the pipe removed and the cofferdam pulled. Also discussed manpower with JB - he would like to keep the current staff for at least the next week while the good weather lasts. Given go ahead by JB to procure 600 LF of straw waddle for Phosphoria Gulch. ERR unable to procure additional Type 3B matting and requested a change to a different 36 MTH product, with a natural fiber netting (more expensive). JB was fine with that if it was within 20 percent of the other product.

Production Delays, Change Orders, and/or Extra Work Items:

Fill in area between channel and USFS road, Sta 2+00 to 6+00; used excess native material from trench and dud hollow bulk fill (Code 09).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed housekeeping and cold weather work. Discussed JSA on mobile equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 5 man crew (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 9/30/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-5 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 44-78 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 12 | 122 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 5 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued final grading /excavation from Sta 8+25 to 9+50. Excavated sill at Sta 8+25, and placed bedding and rock in sill. Installed filter stone Sta 8+25 to 9+50 and rip rap and cover stone from Sta 9+50 to 9+20. Jack Johnson operating 324 long reach, Davd Allen driving 730 truck, and Roy Johnson operating 966 loader loading rock materials. David hauled 2 loads of excess soil to the Phase I rock borrow area. Matt Downing checked grade and set lift stakes with GPS. Paul Conrod and Jon Meixner operating the 345 and PC158 excavator, respectively, cutting trench at the upstream end of the channel. Placed bedding, rip rap, and cover stone to complete upstream end of channel except for the area where the bypass piping crosses the channel. Roger Kerber spread dud hollow fill in the area from Sta 7+00 to 2+00 with the 140H grader, hauled and compacted by Brian Pitts operating the 740 truck/563 compactor, and Doug Weaver loading out matrial in Dud Hollow with the 336 excavator.

Completed fill area by early afternoon, at which point Roger ran 140H grader to grade USFS road for approx 2 miles to the south of the CF GTC site. Doug Switched to grading/leveling spoil piles in the Phase I rock borrow area as the D6K was down in th afternoon with a hydraulic leak. The 740 truck hauled rock materials to Paul Conrod on the north end until WSECo arrived to demobilize it late in the day. Josh Kincaid operated the water truck and also used the D6K dozer to track approx 75 percent of the south spoil area. Doug Weaver also crushed CMP pipe and steel debris for recyling (offsite).

ERR onsite to continue seeding and ECM. Completed Type 2D ECM from Sta 7+00 to 4+00 (approx) on the west side of the channel. Seeding 80 percent complete on the C&D landfill (did not seed south end). Also seeded east channel slope up to the downstream CMP abandonment/drain near Sta 18+00. Began Type 2D ECM from the south to the north on the east slope of the downstream end of the channel later in the day, once Type 3B ECM was completed in this segment.

Site Visitors:

None

Meetings:

Discussed channel alignment at the upstream end/tie in to GTC with JB; design alignment interfers with the access road out of the site to the north. JB approved moving the channel 4' west in the vicinity of the bypass pipe in order to maintain and adequate road width. Discussed bentonite for sed basin culvert; CRA used all 15 supersacks of bentonite for the CMP abandonments; CRA to procure 3/8 bentonite pellets tomorrow - 1.5 pallets were estimated for the seep collars and existing drain abandonment.

Production Delays, Change Orders, and/or Extra Work Items:

Fill in area between channel and USFS road, Sta 2+00 to 6+00; used excess native material from trench and dud hollow bulk fill (Code 09).

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed communication, working in close quarters, changing work tasks, heavy equipment operations, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 5 man crew (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 10/1/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-9 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 38-79 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 103.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 5 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA graded C&D landfill and spoil area near Phase I rock borrow, with Doug Weaver operating the 336 excavator and Roger Kerber on the D6K dozer. Paul Conrod and Jack Johnson continued ditch grading and rock placement. Paul operated the 345 excavator working near the tie-in the GTC at the north end of the channel cut, completing all layers of rock to complete the north end of the channel except for the segment directly beneath the 18" HDPE bypass pipe. Jack operated the 324 long reach placing filter stone from Sta 8+25 to 7+75 and rip rap and cover stone from Sta 8+00 to 7+75. Doug Weaver also operated the 730 truck, hauling rock and moving 1 load of soil. Josh Kincaid operated the water truck as required throughout the day for dust control. Josh Kincaid and David Allen spent the rest of the day picking up debris, scrap, and trash around the site and disposing of a the Bear Lake County Landfill in Montpelier.
Paul, Brian, and David also worked on the Syncline Spring inlet area, per JB's request, to enlarge the inlet basin to ensure all runoff from the spring is captured in high flow conditions. Also abandoned the CMP pipe exposed on the east slope of the channel at the south end of the slurry pit and the former sed pond outlet pipe. Placed 30 bads of bentonite and a soil/rock plug in the sed pond outlet, per JB.

ERR onsite to continue seeding and ECM installation. Continued seeding C&D landfill and channel slopes on both sides near the downstream end (where grading complete). Installed Type 3B ECM (pinned in place) and Type 2D ECM on east side from Sta 26+00 to 21+00, leaving a gap for the sed basin culvert yet to be installed.

Site Visitors:

Mitch Hart, JB, IDEQ, and USFS onsite to inspect channel prior to commissioning next week.

Meetings:

Discussed seep collars and sed basin culvert with JB - CRA will install Saturday and document with photos. Use approx 60 bags (1 pallet) of 3/8" bentonite pellets to backfill under pipe at seep collars.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Roundtable discussion with crew; discussed fire extinguishers, traffic, communication, complacencey, STAR, JSA's for mobile equipment, tight work areas, slips/trips/falls, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 5 man crew (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 10/2/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 44-81 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 80.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 5 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA installed culvert pipe in sed basin, with Jon Meixner operating the 336 excavator to cut trench and seep collar pockets and David Allen and Brian Pitts checking grade and assembling pipe, collars, etc. Doug Weaver and Josh Kincaid assisted with collar assembly, bentonite placement, and backfilling with the dozer, late in the day. Bentonite pellets (3/8") were used where the plate compactor could not reach (directly beneath pipe near collars) and also were used to completely seal where the two collar halfs met each other. Dud Hollow screened fill was placed in 1-foot lifts and compacted to the top of berm (elev 6844.0' approx). Top of oulet set at 6943.0' per the drawings. Jack Johnson completed rock placement near the tank spring tie in, placing rip rap and cover stone. Doug Weaver operated the 730 truck with Roy Johnson operating the 966 loader. Roy also screened rip rap for the tie-in to the existing channel to the north. Josh Kincaid operated the water truck for dust control as required. Doug Weaver also completed tracking the south spoil area per JB; the area is now ready for seeding.

ERR onsite to continue seeding and ECM installation. Continued seeding C&D landfill and channel slopes on both sides near the downstream end (where grading complete). Installed Type 3B ECM (pinned in place) and Type 2D ECM on west side from Sta 24+00 to 22+00.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Roundtable discussion with crew; discussed weekend traffic, hunters, communication, complacencey, STAR, JSA's for mobile equipment, tight work areas, slips/trips/falls, excavation safety, lifting and rigging, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 5 man crew (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 10/3/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-12 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 41-76 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA had Roy Johnson onsite to check dewatering/bypass pumps and fuel. Dan White worked on daily reports and time sheets/expense reports for crew.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 10/4/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Rain | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 44-81 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 88.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 6 | 36 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | 3 | 20 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA installed the last rock sill at Sta 10+00, cutting subgrade and placing filter stone and large rip rap. Jack Johnson operated the 324 long reach excavator, David Allen drove the 730 truck, and Roy Johnson operated the 966 loader. Excess soil was hauled to dud hollow and staged at the toe of the slope to be spread prior to reclamation. Paul Conrod and Doug Weaver completed the Sedimentation Basin culvert this morning, trimming channel slope and building up around inlet stack with 3" minus screened fill. Doug operated the D6K dozer and Paul the 345 excavator. Doug also compacted the west slope of the sedimentation basin with the 533 compactor, as well as the road base placed to complete the roadway over the culvert cut. Doug and Paul then moved to installing 30 LF of 12" ADS culvert under the site road near Sta 18+00, and placed lifts of dud hollow fill material over the pipe making a gradual ramp tieing into the road slope to the south. Jon Meixner operated the grader in the afternoon to grade GTC road south of the site.

Rocky MTN Fence onsite to complete concrete crown on fence post foundations, as requested by JB, and begin installing top rails on north fence section. Remainder of fence materials delivered to site around 1:00 PM. ERR onsite with a 6 person crew to continue hydroseeding and ECM installation, completing Type 3B ECM installation in all areas where rock has been completed. Hydroseeding continued from Sta 19+00 to 17+00 on the east side of the channel, and seeding began on south spoil area until rain set in in the afternoon making it too wet for seeding and ECM installation.

Site Visitors:

James Williams onsite with JB to sample wells at CF GTC Site.

Meetings:

Discussed culvert pipe under access road near Sta 18+00 with JB; during rain today water began to cause rills on east channel slope in the vicinity of the discharge. CRA to install rip rap spillway to control flow from pipe.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed traffic, the start of hunting season, communication, slips/trips/falls, and work on slopes with crew.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 6 man crew (see desc above). RMF onsite with a crew of 3 (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 10/5/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 42-67 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 88.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 7 | 60 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA installed a rip rap spillway leading out of the culvert pipe installed yesterday under the road near Sta 18+00. The spillway was cut 2' X 6' from the outlet of the pipe, down the slope, and tied in with the rip rap in the channel (constructed similar to the detail for the culvert outlets at syncline spring and the sed basin outlet). Rip rap was placed over filter fabric, not filter stone, as requested by JB. A 6' X 6' apron was also installed at the inlet to the pipe. The culvert itself was also replaced as the lowboy from Modern Machinery drove off the road and crushed the end of the pipe installed yesterday (pipe replaced 16" DR11 HDPE removed from tank spring during excavation). Paul Conrod operated the 336 excavator replacing pipe and placing rock on levle ground and Jack Johnson cutting the spillway on the slope and placing rock with the 324 long reach excavator. Doug Weaver drove the 730 truck and Roy Johnson operated the loader loading rock and soil material, besides screening additional rip rap near dud hollow. Also built up subgrade around the culvert and placed road base to complete.
Jon Meixner operated the D6K dozer grading dud hollow and assisting with road base placement late in the day. Jack continued to operate the 324 long reach grading slopes, tracking, and loading out excess soil from Sta 17+00 to 13+00. Excess soil hauled to dud hollow; 5 loads. Josh Kincaid and David Allen installed straw waddles in Phosphoria Gulch as directed by JB.

ERR onsite to continue ECM installation and hydroseeding. Had a 5 man crew installing both types of ECM in th edownstream end of the channel. Hydroseeding completed with a 2 man crew at the south spoil area and along completed segments of the channel on the east side of the trench.

Site Visitors:

James Williams of Nu-West/Agrium onsite to continue the bi-annual sampling with JB.

Meetings:

Discussed straw waddle placement with JB - JB painted where the waddles were to be placed (approx 450 LF). Discussed spillway construction at the sed basin and at the pipe near Sta 18+00; CRA to use filter fabric in lieu of filter gravel as the material is onsite (left over from the CMP crossings). JB feels this will provide a more stable base and better protection against erosion under the heavy rock.

Production Delays, Change Orders, and/or Extra Work Items:

Straw waddles installed in Phosphoria Gulch.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

Discussed traffic, the start of hunting season, communication, slips/trips/falls, and work on slopes with crew. Also discussed cold weather stress, soft tissue injuries, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 7 man crew (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 10/6/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 42-67 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 87.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 7 | 70 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | 5 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA focused on cutting the bypass pipe and placing in the creek near Sta 3+50. Roy Johnson and Paul Conrod removed soil from around the pipe and prepared for relocation. After lunch, the pipe was shut off at the gate, then cut and moved into the stream channel by CRA using all 3 excavators (Jack Johnson on the 324 long reach, Jon Meixner on the 345, and Paul Conrod on the 336) and the 966 loader (operated by Doug Weaver). Doug Weaver, Josh Kincaid, and David Allen assisted with slinging pipe, cutting, and ground support. Dissipater rocks were strategically placed at the pipe discharge point to reduce stream discharge velocities. Water was introduced into the channel at approximately 13:18 as Dan White opened the gate valve on the coffer dam. At approximately 16:55, the water had visibly reached station 14+00, a distance of approximately 54 percent of the total stream length. Stream discharge rate estimated at approx 5 cfs.
CRA also completed the rip rap spill way from the sed basin culvert. Jack Johnson excavated soil with the 324 excavator and placed in the 730 truck driven by Doug Weaver. Jack and Doug continued slope grading and soil removal. After the bypass pipe was cut and relocated, Jack began cutting subgrade in the area where the bypass pipe was relocated. Excess soil was cast to the southwest and spread with the D6K dozer. Laborers Josh and David cleaned the 345 excavator, picked up trash, and removed panels of Type 3B ECM in the Tank Spring ditch extension that JB decided were no longer required. Roy began cutting the 18" HDPE pipe and relocating sections near Dud Hollow late in the day.

ERR onsite to continue hydroseeding and ECM installation. Type 2D ECM and Type 3B ECM completed on east side of channel up to 13+00, except for a few areas where the Type 3B ECM needs to be extended. The south spoil area and area south of the sed basin were completed today, as well as additional channel slope along the east side past the trailer and south end of the slurry pit. RMF onsite with a crew of 5 to install chain link fabric, mid rails, and corner braces on the north and south fence segments.

Site Visitors:

See below

Meetings:

IDEQ (Doug Tanner, Mark Dietrich, Bruce Olenick, and Mark Jeffers), Nu-West/Agrium (James Williams), JB, and CRA met around 1:00 PM for the comissioning of the new CMP bypass channel. The IDEQ had an overall favorable review of the site and of the channel construction. Dan and JB also walked the site and updated the punchlist, which was progressed and additional items added (new list to be issued tomorrow). Frnech drain from USFS cut leaking water on the west channel slope - could be a problem in the spring - CRA to install rock spillway to remedy. Also marked out camp sites to north, make U-shaped gravel drive (approx 15' wide) off of the USFS road with gravel pull offs for parking.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered traffic, watching intersections, congested work areas, lifting/rigging, HDPE pipe cutting, JSA's dozer/loader/excavator/fueling/rock placement/ECM installation.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

ERR onsite with a 7 man crew to continue seeding and ECM installation (see desc above). RMF onsite with a 5 man crew to continue fence installation (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 10/7/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Cloudy | Wind: | 0-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 38-62 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 9 | 91.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | 2 | 16 | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA graded the USFS road in preparation for demobilization later this month, with Jon Meixner operating the 140H grader. Also spread road base to complete ramp and culvert crossing from 16+00 to 19+00 and compacted with the 533; Jon on the grader and Josh Kincaid on the 533 compactor. Jack Johnson operated the 324 excavator cutting subgrade from 3+30 to 2+00, casting soil behind him for Kevin Baumgartner on the D6K dozer to spread in the fill area. Kevin moved to grading dud hollow mid-morning and worked there for the remainder of the shift. Roy Johnson continued to cut and relocate sections of the 18" HDPE bypass pipe, hauling sections to the area east of the USFS road near dud hollow. After the ditch was verified, Jack began placing filter rock and rip rap in the afternoon. Roy also screened rip rap and spread spoil material staged in dud hollow with the loader.

Site Visitors:

WSECo picked up 563 compactor in the afternoon.

Meetings:

Revised punchlist received from JB with additional items added for CRA to complete. Correspondence included authorization for some requested extra work items, listed on the punchlist.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered traffic, watching intersections, congested work areas, lifting/rigging, HDPE pipe cutting, JSA's dozer/loader/excavator/fueling/rock placement/ECM installation.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

SSLTD onsite to verify the last section of subgrade and continue as-built topo.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 10/8/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Snow/Rain | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-56 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 2 | 75.5 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | 3 | 23 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA completed rock placement and cover stone in channel segment at the upstream end that was underneath the bypass pipe. Also reworked the inlet apron by adding additonal rock to the wing walls/ends of benches. Jack Johnson operated the 324 excavator, Kevin Baumgartner drove the 730 truck, and Roy Johnson operated the 966 loader. Once rock placement was completed, moved to the dewatering pump staging area and began removing pipe and fittings. Dan White and Josh Kincaid broke down all hoses and bauer pipe and removed from sump area. Jack backfilled the sump with filter rock, boulders and rip rap, then a lift of river/cover stone to bring the area back to existing grade (essentially constructed a large sill).

Following this, the 18" HDPE bypass line was cut at the cofferdam and the dam removed. Soil and rock used in dam construction were loaded in the truck and dumped in dud hollow and blended with the slope. Disturbed slopes in the vicinity of the dam were regraded. The 18" pipe was then marked and cut in 200 LF sections from the dam location south. The bridge that crossed the new channel was disassembled and the segment of pipe running into the channel rigged and lifted with the long stick excavator. The 336 excavator, operated by Kevin, was used to drag sections of pipe out along the north spoil area where they could be accessed by the loader.

Rocky Mountain Fencing onsite three man crew to complete site fencing installation. Only remaining item are gate stops which will be installed next week.

Site Visitors:

Mullen Crane picked up 345 Excavator for shipment to CPO F-GYP-2 Project (CRA oversight)

Meetings:

Discussed signage with JB via e-mail; JB would like 16X24 signs at 500 LF intervals, west facing, on the east side of the channel, between the fence sections. This was not in the specifications, but is required by Idaho law for the site.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered traffic, watching intersections, congested work areas, lifting/rigging, HDPE pipe cutting, JSA's dozer/loader/excavator/fueling/rock placement/ECM installation.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

RMF onsite with a 3 man crew (see desc above).

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 10/9/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Rain Shwrs | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 29-58 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 74 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued bypass system removal with Roy Johnson on the 966 loader cutting and stagging long sections (200 LF) of the 18" HDPE around the site for access by Rain for Rent next week. Roy and Josh Kincade relocated all of the dewatering pumps and cofferdam structure along the USFS road at the downstream end of the channel, where they were cleaned for shipment offsite next week. Kevin Baumngartner operated the D6K dozer, and completed regrading dud hollow, working material from the top down to fill in high walls and sloughs. He moved to regrading areas along the channel at the north end of the site by mid afternoon.
Paul Conrod operated the 336 excavator regarding and shapping the bench/slopes disturbed by the bypass pipe installation imediately downstream from the cofferdam. The silt fence installed will remain per JB and the area will be hydroseeded. Kevin assisted in blading the top of slope in this area and constructing a small berm along the top of slope on the east side of the channel. Paul spent the rest of the day completing various drainage improvements, placing rip rap at the culvert outlet near Sta 1+50, cutting a channel and placing rip rap to intercept the water from the french drain under the USFS road, and adding rip rap to the apron at the north end of the new channel (tie-in to the existing creek bed). Jack Johnson graded channel slopes at the north end of the channel and continued to build soil benches between Syncline Spring and Tank Spring. Josh Kincaid cleaned/deconned bypass equipment, ran haul truck with rock as requested, policed the site for garbage and debris, and moved ECM for bench construction.

Site Visitors:

None

Meetings:

Discussed various topics with JB via e-mail: JB approved a proposed "No Trespassing" sign for use along the east side fo the channel cut. JB also gave CRA to approval to rip rap the outlet of the 18" CMP culvert neat channel Sta 1+50, that runs under the USFS road and down the west channel slope.

Production Delays, Change Orders, and/or Extra Work Items:

See above - 18" CMP culvert outlet protection and installation of seep drain near Sta 10+10.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered traffic, hunters/campers in GTC, wildlife, work area congestion, chain saw safety, and rigging and lifting.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 10/10/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | 0-10 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 38-60 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 3 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite. Dan White completing crew time and expense as well as daily reports and Josh Kincade picking up misc site supplies.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 10/11/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Rain Shwrs | Wind: | 0-15 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 32-48 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 61 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | 4 | 40 | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 7 | 70 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued slope grading and bench construction between Syncline Spring and Tank Spring, with Jack on the 324 excavator and Kevin Baumgartner on the D6K dozer tracking slopes behine Jack. Josh Kincade operated the 730 truck, as necessary, brinign soil to Jack for building benches. Roy Johnson and Josh Kincade also removed 6" bauer pipe from the north end of the site and stockpiling where RFR can get to it to load out later today. Roy Spent the rest of the day moving and loading 18" HDPE pipe for Rain for Rent to inventory, sort, cut, and band for shipment. Evans Range Reclamation onsite to continue hydroseeding and ECM installation. Completed Type 3B ECM on the newest section of channel at the upstream end, then continued Type 2D ECM installation on the east side of the channel along the slurry pit. Seeding and mulch along the channel ahead of the ECM crew and in the Phase I rock borrow/spoil area and mouth of Phosphoria Gulch.
Jack completed soil bench construction on the upstream end of the channel to the northern tie-in with the existing creek in the afternoon. Kevin continued grading on the west side of the channel between the top od slope and the USFS road, leveling excess soil and grading for proper drainage. RFR took the 6" bauer pipe, one 4" trash pump, misc suction lines, strainers, fittings, and spill guard offiste this afternoon. The cofferdam and second 4" pump will be offsite tomorrow, with only the 18" HDPE remaining.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered traffic, hunters/campers in GTC, wildlife, work area congestion, chain saw safety, subcontractors, and rigging and lifting. Reviewed JSA's and work plan for RFR crew picking up bypass system components and loading pipe.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 7 man crew and RFR onsite with a 4 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 10/12/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 0-5 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 32-48 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 7 | 73 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | 4 | 48 | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 7 | 70 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued building soil benches, grading slopes, and track walking in preparation for seeding. Jack Johnson operated the 324 excavator and Kevin Baumgartner the D6K dozer. Jack and Kevin worked on the west side of the channel from Sta 8+00 to 14+00. Kevin also graded along the top of the channel slopes on the east and west sides, as well as working on various punchlist grading items (namely the waterbar improvements along the road to Phosphoria Gulch). Paul Conrod operated the 336 excavator removing the temporary ditch crossing onto the south spoil area and restoring the ditch with rip rap (1 load). Josh Kincaid operated the 730 truck to move excess soil and deliver rock materials as required. Also placed large rip rap in the slope washout on the north side of the south fence/property boundary (3 loads). Paul then worked on shapping soil/slag BMP's along the east channel slope from the south fence north past the clarifier. Josh also cleaned the grizzly and removed rocks stuck in the screen deck.
ERR onsite to continue seeding and ECM installation. Completed east channel slope with seeding and ECM, except for a few areas at the downstream end (around the sed basin culvert and a few places where the Type 3B needs to be lengthened). Continued ECM on west side working north to south, completing unfinished segment north of Sta 4+00. Also completed ECM in Tank Spring ditch extension. Hydroseeding on channel banks ahead of ECM crew and Dud Hollow. RFR onsite to continue cutting/banding/shipping pipe offsite. Roy Johnson on the 966

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Filled large washout in east channel slope just north of south property boundary with oversize/excess rip rap (3 loads) - approved by JB.
Waterbar imporovments in PG.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered traffic, hunters/campers in GTC, wildlife, work area congestion, chain saw safety, subcontractors, and rigging and lifting.
Reviewed JSA's and work plan for RFR crew picking up bypass system components and loading pipe.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 7 man crew and RFR onsite with a 4 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 10/13/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Clam |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 18-58 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 7 | 73 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | 4 | 48 | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 7 | 70 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jack Johnson continued slope grading and bench construction from Sta 14+00 to 18+00 operating the 324 long stick excavator. Kevin Baumgartner operated the D6K dozer grading the top of slope and tracking in graded slopes. Excess soil removed from the slopes was loaded into the 730 truck driven by Josh Kincade, with 5 loads hauled to Dud Hollow. Kevin also continued construction the water bars in Phosphoria Gulch requested by JB. Josh also operated the 140 graded and graded the access road around the slurry pit. Dust control onsite as necessary throughout the day. Also cleaned the grader to prepare for shipment offsite next week. Roy Johnson operated the 966 loader assisting RFR in loading out 18" HDPE bypass pipe. Roy dragged sections from the north end of the site to the staging area near Dud Hollow for cutting, banding, and loading onto trucks.

ERR onsite to continue ECM installation and hydroseeding. CRA assisted ERR with Dud Hollow seeding by clearing a turnaround above Dud Hollow with the 336 excavator, operated by Paul Conrod, and pulling their tractor and tanker to the top where the road is steep. Sprayed 0.5 AC on Dud Hollow, then continued seeding west channel slopes to keep up with the ECM crew. ECM complete on the west side today from the north end south to Sta 9+00 (approx). East side now complete everywhere except for minor Type 3B patching and completing panels on either side of the sedimentation basin culvert. Paul also worked on punchlist items, like moving excess rock and soil to Dud Hollow and repairing various culverts and drainages around the site. Paul also mixed excess river rock and filter rock for building campsites later in the week.

Site Visitors:

Mitch Hart and James Williams stopped for a site visit and to discuss the project status with Dan White and JB.

Meetings:

Discussed punchlist with JB, James Williams, and Mitch - added items and issued revised punchlist at the end of the day. Discussed density test requirement for site roads and USFS road - JB discussed with Paul Kos and CRA will not be required to perform these.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered traffic, hunters/campers in GTC, wildlife, work area congestion, chain saw safety, pinch points, slips/trips/falls, subcontractors, and rigging and lifting.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 7 man crew and RFR onsite with a 4 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 10/14/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | Clam |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 20-60 F |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 67 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | 3 | 16.5 | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 6 | 54 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Paul Conrod operated the 336 excavator and completed punch list tasks including: mixing/loading river stone and filter stone for the camp area, repairing the wetland south of the north spoil area, installing a rock barrier wall between the north fence and the Tank Spring outlet (25% complete), repairing the culvert just south of the north spoil area, and widening the gap in 4 of weirs at the south end of the channel. Jack Johnson continued west slope grading from 18+00 to 19+50 and west bench construction from Sta 23+00 to 25+00 operating the 324 long stick excavator. Kevin Baumgartner operated the D6K dozer tracking in graded slopes as they were completed by Jack Johnson. Kevin Baumgartner also assisted ERR by towing the hydroseeder to up Dud Hollow. Kevin Baumgartner additionally placed approximately 85% of the mixed river stone and filter stone for the camping area. Josh Kincade transported Dan White to Salt Lake City for travel home. Josh Kincade also operated the 730 haul truck in support of Paul Conrod and Kevin Baumgartner. Josh Kincade additionally completed dust control onsite as necessary throughout the day. Roy Johnson operated the 966 loader assisting RFR in loading out 18" HDPE bypass pipe.
ERR onsite to continue ECM installation and hydroseeding. Sprayed 0.5 AC on Dud Hollow, and continued seeding west channel slopes between 13+50 to 17+00. Type 2D and Type 3B ECM was completed from 11+00 to 17+00. Rain for Rent onsite to continue demobe of HDPE bypass piping and removed 1 load of recycle/scrap HDPE piping. The HDPE inlet structure and a partial load of HDPE recycle/scrap piping remain on site and will be removed on 10/15/10. The stone box was called of rent and picked up by WSECo. The temporary site fencing was picked up by Mountain States Fence Co.

Site Visitors:

WSECo picked up stone box. MTN States Fence Co picked up temp fence panels.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Battery on water truck was found completely discharged at approximately 16:00 hours. Suspect short in reverse light/alarm wiring.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TAGS covered traffic, hunters/campers in GTE, wildlife, work area congestion, chain saw safety, pinch points, slips/trips/falls, subcontractors, and rigging and lifting.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 6 man crew and RFR onsite with a 3 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 10/15/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear | Wind: | 5-25 mph |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 20-60 F |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 64 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | 1 | 2 | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 6 | 43.5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Paul Conrod operated the 336 excavator and completed punch list tasks including: loading mixed river stone and filter stone for the camp area, installing a rock barrier wall between the north fence and the Tank Spring outlet (50% complete). Paul Conrod also graded high wall slopes at the base of Dud Hollow. Jack Johnson continued west channel slope grading from 23+00 to 24+50 and west channel slope bench construction from Sta 25+00 to 26+00 operating the 324 long stick excavator. Kevin Baumgartner operated the D6K dozer tracking in graded slopes as they were completed by Jack Johnson. Kevin Baumgartner also assisted ERR by towing the hydroseeder to up Dud Hollow. Kevin Baumgartner additionally completed the placement of the mixed river stone and filter stone for the camping area. Josh Kincade operated the 730 haul truck in support of Paul Conrod and Kevin Baumgartner. Josh Kincade additionally completed dust control onsite as necessary throughout the day. Roy Johnson operated the 966 loader assisting RFR in loading out 18" HDPE bypass pipe. Roy Johnson also loaded the silver 1,000 gal diesel tank and the Grizzly for demobilization.

ERR onsite to continue ECM installation and hydroseeding. Sprayed 2.5 AC on Dud Hollow, and continued seeding west channel slopes between 17+00 and 19+50. Type 3B ECM was completed from 17+00 to 19+50. Type 3B ERM was patched between 18+00 and 22+00 (approximately).

Rain for Rent onsite to demobe last load of recycle/scrap HDPE piping and HDPE inlet structure.

Site Visitors:

WSECo picked up 140H grader. United Rentals picked up the grizzly.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

The water truck had to be jump started which took approximately 1.5 hours. Additionally, the ground wire and battery cables had to be disconnected so that the batteries would not discharge while the truck was operating. WESCo sent a mechanic to address the problem and repair part were ordered.

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TAGS covered "360 Degree Walk Around" of vehicles before moving and "Stop Work Authority".

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 6 man crew and RFR onsite with a 1 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 10/16/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | 5-10 mph |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 25-60 F |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 55 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 7 | 39.5 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Paul Conrod operated the 336 excavator and completed punch list tasks including: loading the remaining Rip Rap for relocation to the base of Dud Hollow, completing the rock barrier at the north fence, removing the flange from the abandonded well at Syncline Spring, and covering the abandoned well at Syncline Spring. Jack Johnson graded high wall slopes at the base of Dud Hollow. Jack Johnson completed west channel slope grading from 24+50 to 26+00 operating the 324 long stick excavator. Kevin Baumgartner operated the D6K dozer tracking in graded slopes as they were completed by Jack Johnson. Kevin Baumgartner also assisted ERR by towing the hydroseeder to up Dud Hollow. Kevin Baumgartner also completed the waer bar at the south end of the North Spoil Placement area. Josh Kincade operated the 730 haul truck in support of Paul Conrod. Josh Kincade additionally completed dust control onsite as necessary throughout the day. Josh Kincade also began the trailer demobe. Roy Johnson loaded Rip Rap and Filter Stone for relocation to the base of Dudd Hollow. Additionally, Roy Johnson Placed the "NO Trespassing" signs on the new north and south fences.
ERR onsite to continue ECM installation and hydroseeding. Continued work at Dud Hollow with seeding. Type 2D ECM was completed from 17+00 to 19+50.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TAGS covered swing radius of excavator, site speed, requesting spotters when necessary, hunter traffic, and greasing equipment.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 7 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 10/17/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 22-58 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 13 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite today. Josh Kincade demobilized from site this morning - traveling back to MI.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 10/18/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | 5-10 mph |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 25-60 F |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 62 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 7 | 70 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to work on punchlist items and general site grading today. Jack Johnson completed grading at the west channel slope transition at the downstream end of the channel. Exces soil was loaded out spotted, as required with the 730 truck (driven by Paul Conrod), to complete slag cover and soil berm construction along the USFS road and the wet channel slope. Kevin Baumgartner operated the D6K dozer spreading fill. Paul Conrod opened the top on a pit in the former shop area, and placed soil and rock inside to fill the void that remained unfilled. Soil was staged to place as cover over the former service pit (1-foot compacted fill per JB). Kevin also tracked slopes that Jack graded at the downstream end of the channel. Roy Johnson operated the 966 loader and assited with loading excess soil in the truck and spotting soil for berm construction and lag cover. Kevin also performed misc site grading in areas yet to be seeded, including water bar extension from Phosphoria Gulch towards the sedimentation pond and grading along the top of channel slope and the east and west sides.

ERR onsite to continue ECM placement and hydroseeding. Completed seeding Dud Hollow, placing one load on top of the hill and one along the toe of the slope. Also seeded channel slopes ahead of the ECM crew. ECM placement continued on the downstream end of the channel, west slope.

Site Visitors:

None

Meetings:

Discussed planting woody species with JB in the spring vs the fall as several experts (Univ of Idaho, NRCS, and Fish & Game Service) have aid there is better survival with spring plantings vs fall planting. Mitch Hart directed to complete this fall. Also discussed discovery of pit on former shop area; CRA to fill underground voids to stabilize urface from cave-ins and cover with 1-foot of soil, per JB.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered school children at bus stops and in roadways in the morning, wildlife, ATV's, hunters, and cold weather stress.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 7 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 10/19/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | Clam |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-57 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 57 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 6 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | 2 | 6 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jack Johnson, Roy Johnson, and Paul Conrod worked at completing road base placement from north of the sed basin (intersection of access road with road to Phosphoria Gulch) to the north gate. Jack operated the D6K dozer, Roy the 966 loader, and Paul the 533 smooth drum roller. Mixed remaining crushed filter rock with road base per JB. Also constructed road to well GT-3 on the south edge of the furnace cover with the small amount of remaining gravel. Paul also worked on augering holes for the permanent no trepassing signs. Paul operated the 336 excavator repairing a high way that sloughed in Dudu Hollow and removing large boulders that were in the creek outh of the site (identified by James Williams - rocks offsite and may have been there for years - but they were cloe to blocking a 60" CMP). Paul installed wattles around the inlet to the culvert north of the site (imediately south of the north spoil area). Kevin Baumgartner traveling home from the site.

ERR onsite with a 6 man crew to continue hydroseeding and ECM placement. Continued seeding along the top of bank on both sides of the channel. ECM complete except for 3 rolls of Type 2D that need to be purchased to complete the west slope near Sta 22+00. RMF onsite to complete the stop posts/locks on the south gate late in the day - will return later this week to complete the north gate.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered school children at bus stops and in roadways in the morning, wildlife, farm animals, ATV's, hunters, lifting, rigging, 360 walkarounds, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 6 man crew. RMF onsite with a 2 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 10/20/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | 0-5 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 29-61 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 61 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 2 | 20 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | 2 | 6 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jack Johnson worked ahead of the hydroseeding crew (ERR) tracking and grading misc areas around the site that still required seeding. Jack graded the equipment staging area, spreading several loads of soil that had been placed previosuly. Roy Johnson and Paul Conrod deconed/cleaned the 730 truck and 533 roller. They also loaded the dump trailer with a load of trash and debris accumulated throughout the project, and took to the Bear Lake County Landfill. Paul excavated holes for the permanent site no trespassing signs, borrowing the 301 excavator from ERR. Roy and Paul also assisted PPS in emptying and loading out the on road doesel fuel tank and the last remiaining 1,000 gallon off road diesel tank before noon. Kevin Baumgartner traveling home today (second driving day).

ERR onsite with a 2 man crew to continue hydroseeding; seeded misc areas along the top of the channel slopes, USFS cut area, and along site roads. Will complete around office trailer and equipment area tomorrow. RMF onsite to complete the stop posts/locks on the north gate.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered school children at bus stops and in roadways in the morning, wildlife, farm animals, ATV's, hunters, lifting, rigging, 360 walkarounds, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 2 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Thursday | Date: | 10/21/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | 0-5 |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 29-61 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 5 | 51 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 2 | 20 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Jack Johnson worked ahead of the hydroseeding crew (ERR) tracking and grading misc areas around the site that still required seeding. Jack graded the equipment staging area, spreading several loads of soil that had been placed previosuly. Roy Johnson and Paul Conrod deconed/cleaned the 730 truck and 533 roller. They also loaded the dump trailer with a load of trash and debris accumulated throughout the project, and took to the Bear Lake County Landfill. Paul excavated holes for the permanent site no trespassing signs, borrowing the 301 excavator from ERR. Roy and Paul also assisted PPS in emptying and loading out the on road doesel fuel tank and the last remiaining 1,000 gallon off road diesel tank before noon. Kevin Baumgartner traveling home today (second driving day).

ERR onsite with a 2 man crew to continue hydroseeding; seeded misc areas along the top of the channel slopes, USFS cut area, and along site roads. Will complete around office trailer and equipment area tomorrow.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered school children at bus stops and in roadways in the morning, wildlife, farm animals, ATV's, hunters, lifting, rigging, 360 walkarounds, etc.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 2 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Friday | Date: | 10/22/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Clear/Sun | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-57 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 6 | 44 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 5 | 30 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

CRA continued to demobilize, packing the contents of the office trailer into the tool crib. Roy Johnson worked on cutting straps, removing jack stands, and breaking down tables and chairs. William Scotsman onsite around 12:00 PM to pickup the trailer. Used water truck to clean 336 excavator, D6K dozer,and 533 roller - all of which are off rent the end of this week. Both the 45 kw and 25 kw generators are also off rent and were prepared for demobilization. Set five (5) 4X4X10 pressure treated posts for permanents no trespassing signs with concrete delivered from Staker Parsons (2 CY placed - 5 CY min charge). Braced level and will install signs tomorrow. JB onsite to pull well pump with pump rig. Paul and Roy drained the frac tank and moved to Dud Hollow with the 966 loader. Removed temporary site signage and took trash to Bear Lake County Landfill

ERR onsite with a 3 man crew to complete hydroseeding; seeded misc areas in the temporary facility area (1 load or 0.25 ac). Two man crew working on cutting Type 3B ECM for tree installation and augering holes for woody species; slated for delivery tomorrow.

Site Visitors:

Mitch Hart onsite late in the day for a project status update and site tour.

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

Work on No Tresspassing Signs (above)

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered lifting, buddy system, traffic, misc equipment JSA's, demobilization JSA, cold stress, and slips/trips/falls.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 2 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Saturday | Date: | 10/23/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Pt Cloudy | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 28-56 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 3 | 27 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | 5 | 50 | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Roy Johnson worked on completing no tresspassing signs along the channel bank today; removing braces and bolting 18X24 reflective "PRIVATE PROPERTY - NO TRESSPASSING" signs to the 4X4 posts set yesterday. Roy finished cleaning the loader and packing the tool crib. Paul Conrod also worked on demobilization activities, washing and fueling equipment. Collected electrical components supplied by ACE Electric and returned to their shop in Georgetown. ERR onsite with a 5 man crew to plant woody species along the benches, including willows, alder, doogwood, and snowberry shrubs. Installed 1200 plants total (600 willow and 200 each alder, dogwood, and snowberry).

Site Visitors:

None

Meetings:

Discussed willow shrubs with JB via e-mail. University of Idaho shipped coyote willow shrubs, not cuttings as specified. Since the plant materials cannot be returned, they were planted anyways. Based on site conditions (heavy rock) and overlying ECM, installing shrubs caused less disruption to the bench soil and ECM. U of I and ERR also felt they would have a better survival rate with shrubs vs cuttings. JB will discuss with Mitch Hart and Paul Kos Monday.

Production Delays, Change Orders, and/or Extra Work Items:

Work on No Tresspassing Signs (above)

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

TGSM covered lifting, buddy system, traffic, misc equipment JSA's, demobilization JSA, cold stress, and slips/trips/falls.

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

See above, ERR onsite with a 5 man crew.

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Sunday | Date: | 10/24/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Rain/Snow | Wind: | Calm |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 31-52 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 1 | 2 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

No work performed onsite.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Monday | Date: | 10/25/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Snow | Wind: | 0-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 22-34 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 4 | 38 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Roy Johnson and Dan White onsite to complete equipment demobilization. Heavy rain yesterday froze and then was covered in snow, making it difficult to remove equipment from the site. Rain for Rent picked up frac tank. WSECo demobilized loader, excavator, and roller before deciding site conditions had deteriorated to the point where equipment needed to be moved down the canyon for pickup. Roy onsite all day to assist with equipment demob. 45kw and 25 kw generators will be hauled to Agrium CPO plant for security purposes and picked up later in the week by WSECo. Roy hauled tool crib back to Montpelier. Matt Downing and Jack Johnson traveling home from the site.

Site Visitors:

None

Meetings:

Paul Kos and Mitch Hart approved willow shrubs used vs willow whips in the specifications.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Tuesday | Date: | 10/26/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Snow | Wind: | 0-25 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 22-34 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 4 | 35 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Roy Johnson and Dan White onsite to move D6K dozer and water truck to fish ladder / water treatment down the canyon where WSECo can pick them up and not deal with the poor site conditions at the CF Site. Matt Downing and Jack Johnson traveling home from the site. CRA completedly demobilized from site.

Site Visitors:

None

Meetings:

Paul Kos and Mitch Hart approved willow shrubs used vs willow whips in the specifications.

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# CRA Services

**Contractor's Daily Work Report**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project: | CF GTC Site PH2 | Project number: | 56902 | Day: | Wednesday | Date: | 10/27/10 |
| Client: | Nu-West/Agrium | Location: | Georgetown, ID | Weather: | Snow | Wind: | 0-20 MPH |
| Manager: | Wayne Bauman | Health & Safety: | Matt Downing | Supt: | Dave Dekker | Temp: | 19-42 |

On-Site Personnel and Man-hours:

| Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours | Trade | Shift | Personnel | Total Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CRA | 1st | 3 | 28 | Ace Electric | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Surveyor Scherbel | 1st | | | Wild Blue | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Harper Levitt | 1st | | | Rain for Rent | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Evans Range Reclamation | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| Rocky MTN Fence | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |
| PPS | 1st | | | | 1st | | | | 1st | | |
| | 2nd | | | | 2nd | | | | 2nd | | |

Description of Day's Activities

Roy Johnson, Jack Johnson, and Matt Downing traveling home from site.

Site Visitors:

None

Meetings:

None

Production Delays, Change Orders, and/or Extra Work Items:

None

Health and Safety (Tailgate Meeting Topics, Incidents, Near Misses, etc) :

None

Report on Subcontractors (Conversations, Meetings, Issues, etc.) :

None

SUPERVISOR DATE PROJECT MANAGER DATE

# APPENDIX F

# TEST PIT LOGS

FIELD TEST PIT LOG

# TEST PIT: TP-101

DATE: 06/18/10
TIME: 8:00

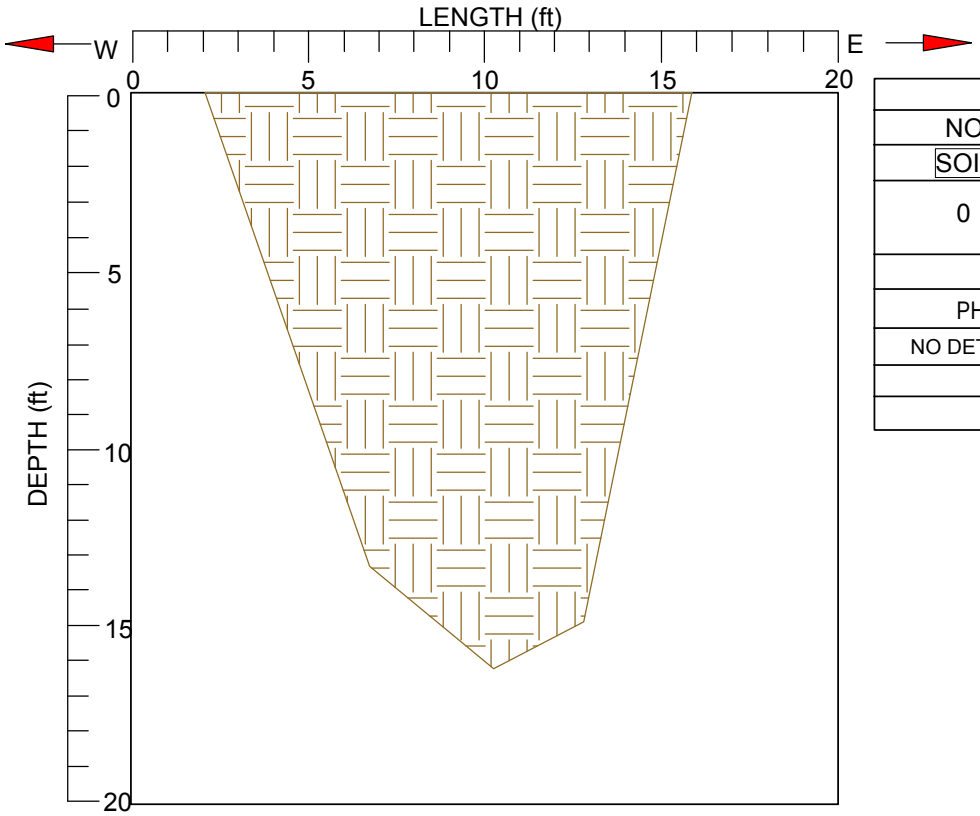
WEATHER: CLEAR, COOL
LITTLE WIND

ELEVATION: 6973.30
NORTHING: 317322.10
EASTING: 900263.40
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT

OPERATOR: CONESTOGA ROVERS (CRA)

ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 0.5 | ML | DARK BROWN SILT WITH ROOTS |
| 0.5 | 2.5 | GM | LT. BROWN SILTY GRAVEL WITH SOME FINE TO COARSE SAND, DRY |
| 2.5 | 8.0 | GM | GRADES DAMP AT 5.5 FT, CAVING |
| 8.0 | 16.0 | GM | SATURATED SOILS, CAVING |
| | | | |
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| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 13:45 | 16.0 FEET | NO WATER |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS THAT ARE CAVING INTO PIT FROM 8 FEET.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

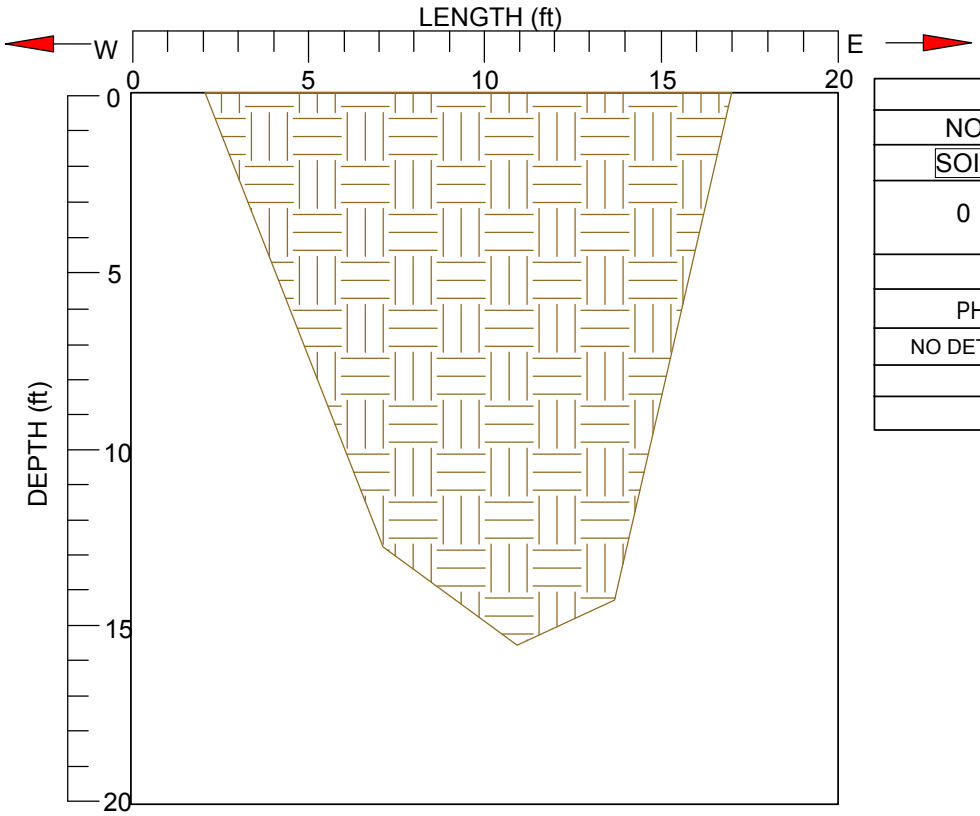
# TEST PIT: TP-102

DATE: 06/18/10
TIME: 8:25

WEATHER: CLEAR, COOL
LITTLE WIND

ELEVATION: 6971.90
NORTHING: 317131.20
EASTING: 900205.10
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.0 | FILL | SLAG, HARD |
| 2.0 | 3.5 | GM | LT. BROWN SILTY FINE TO COARSE SANDY GRAVEL, MOIST |
| 3.5 | 5.5 | GC | MEDIUM TO DARK BROWN CLAYEY FINE TO COARSE GRAVEL AND COBBLES, MOIST |
| 5.5 | 8.5 | ML/CL | DARK GRAYISH-BROWN SILTY CLAY, TRACE OF GRAVEL |
| 8.5 | 15.5 | ML/CL | GRADES MEDIUM GRAY IN COLOR, MOIST |
| | | | |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 8:42 | 15.5 | NO WATER |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, DRY

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

# TEST PIT: TP-103

DATE: 06/16/10
TIME: 16:26

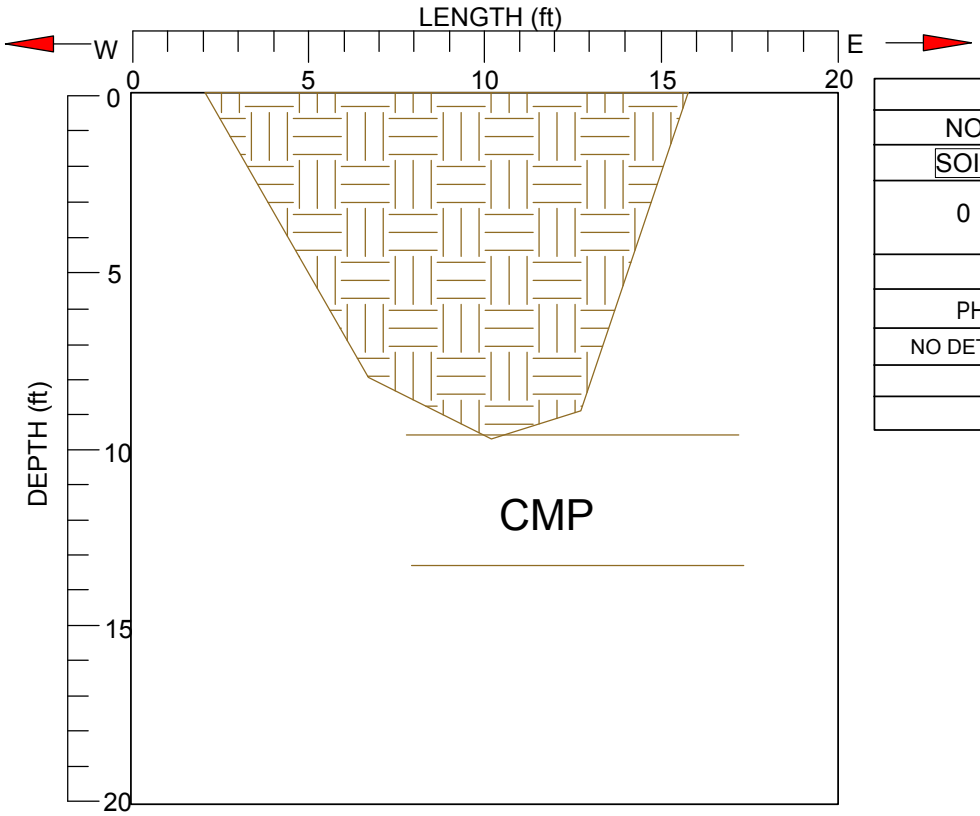
WEATHER: HAIL, COOL

ELEVATION: 6969.40
NORTHING: 316908.30
EASTING: 900043.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT

OPERATOR: CONESTOGA ROVERS (CRA)

ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.5 | FILL | SLAG, HARD, WATER PERCHED AT 3 FEET |
| 2.5 | 7.5 | GC | MEDIUM BROWNISH GRAY CLAYEY GRAVEL, WET |
| 7.5 | 10 | ML | DARK BROWN CLAYEY SILT, SOME FINE GRAVEL, WET |
| | | | INTERCEPT TOP OF CMP AT ABOUT 10 FT, SURVEY IN CMP TOP |
| | | | |
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| | | | |
| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 9:50 ON 6/17 | 10.0 | PERCHED WATER AT 3 FEET |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS SEEPING FROM 3 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) SURVEY IN TOP OF CMP AT 6960.9'

FIELD TEST PIT LOG

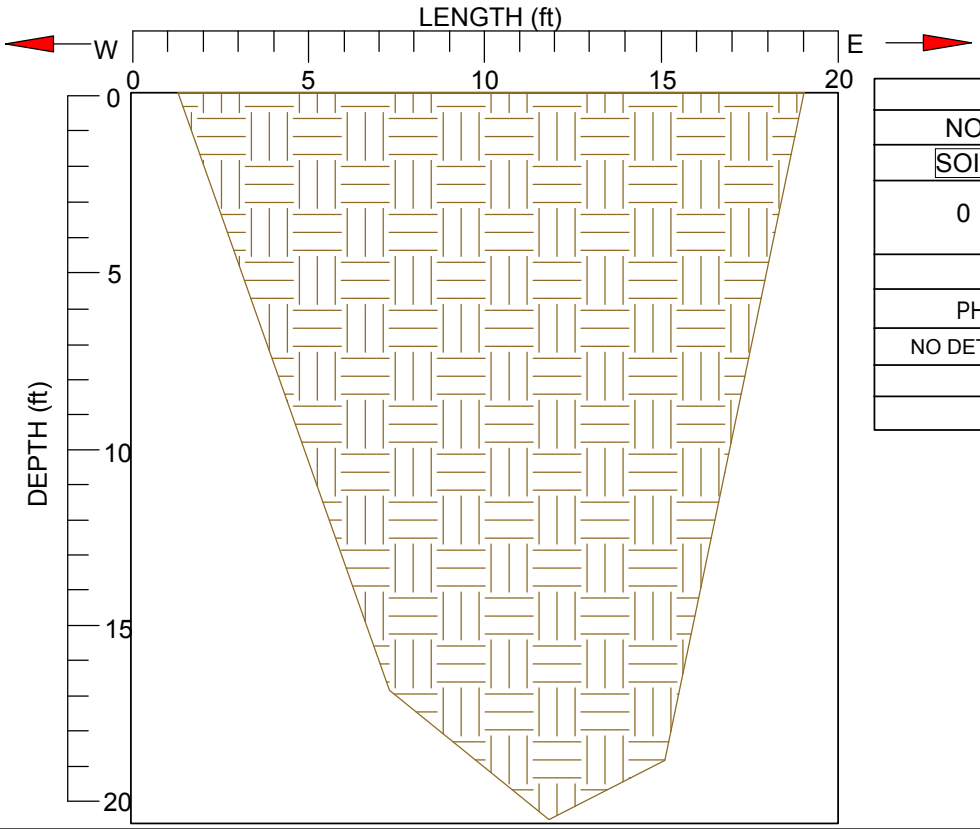
# TEST PIT: TP-104

DATE: 06/17/10
TIME: 10:48

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6969.00
NORTHING: 316813.40
EASTING: 899963.80
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.0 | ML | DARK BROWN SILT WITH ROOTS |
| 1.0 | 9.0 | GM | MEDIUM TO DARK BROWN SILTY FINE TO COARSE SANDY GRAVEL, MOIST TO DAMP |
| 9.0 | 12.5 | GM/GP | SANDY COBBLES AND COARSE GRAVEL, SOME INTERBEDDED SILTY COARSE GRAVEL |
| 12.5 | 19.5 | GM | DARK GRAY SILTY FINE TO COARSE SANDY GRAVEL, WET, SOME WOOD |
| 19.5 | 21 | GP | COBBLES AND BOULDERS, SOME SILT |
| | | | |
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| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 11:04 | 21.0 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, CAVING BACK TO 5 FT

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

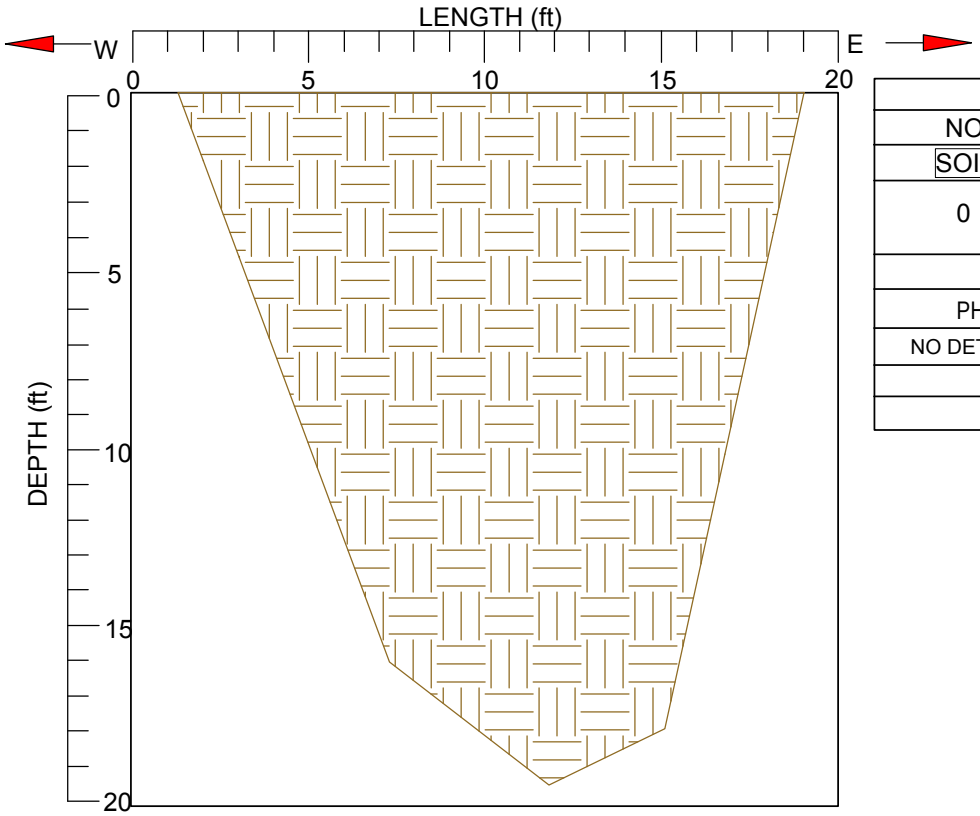
# TEST PIT: TP-105

DATE: 06/17/10
TIME: 12:35

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6968.70
NORTHING: 316736.70
EASTING: 899899.70
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.5 | FILL | LIGHT TO MEDIUM GRAY SLAG, MIXED WITH SILT, DRY |
| 2.5 | 4.5 | ML | MEDIUM BROWN SILT, MOIST |
| 4.5 | 9.0 | GM | MEDIUM BROWN SILTY FINE TO COARSE SAND, GRAVEL, DRY |
| 9.0 | 11.5 | GM | GRADES WITH BOULDERS TO 20 INCHES |
| 11.5 | 19.5 | GM/GP | PREDOM. MEDIUM BROWN GRAVEL AND BOULDERS WITH FINE TO COARSE SANDY SILT |
| | | | |
| | | | |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 14:00 | 19.5 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT,

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) UNSTABLE AND CAVING FROM 8 FEET DOWN

FIELD TEST PIT LOG

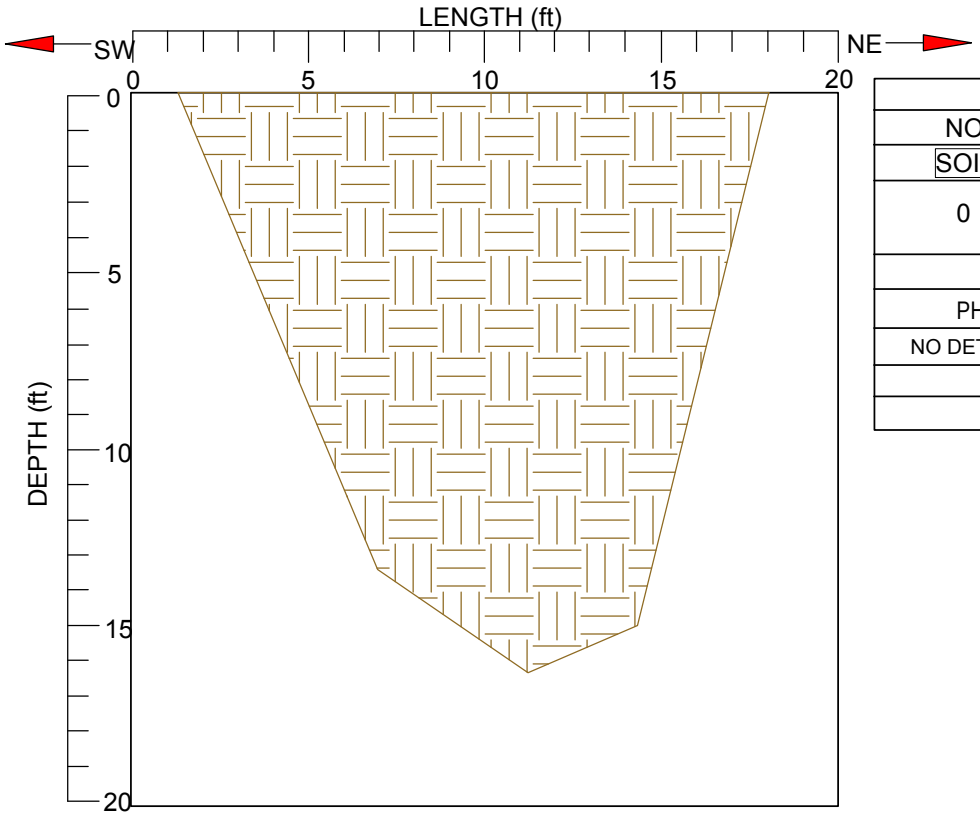
# TEST PIT: TP-106

DATE: 06/17/10
TIME: 14:22

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6968.20
NORTHING: 316649.30
EASTING: 899852.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.0 | ML | LIGHT TO DARK BROWN SILT AND ROOTS |
| 1.0 | 14.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL |
| 14.5 | 16.5 | GC | MEDIUM TO DARK BROWN CLAYEY FINE TO COARSE SANDY GRAVEL WITH SOME COBBLES |
| | | | |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 14:34 | 16.5 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS SEEPING FROM 6 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) TRACE OF WATER SEEPING FROM 6 FEET BUT NO WATER IN PIT

FIELD TEST PIT LOG

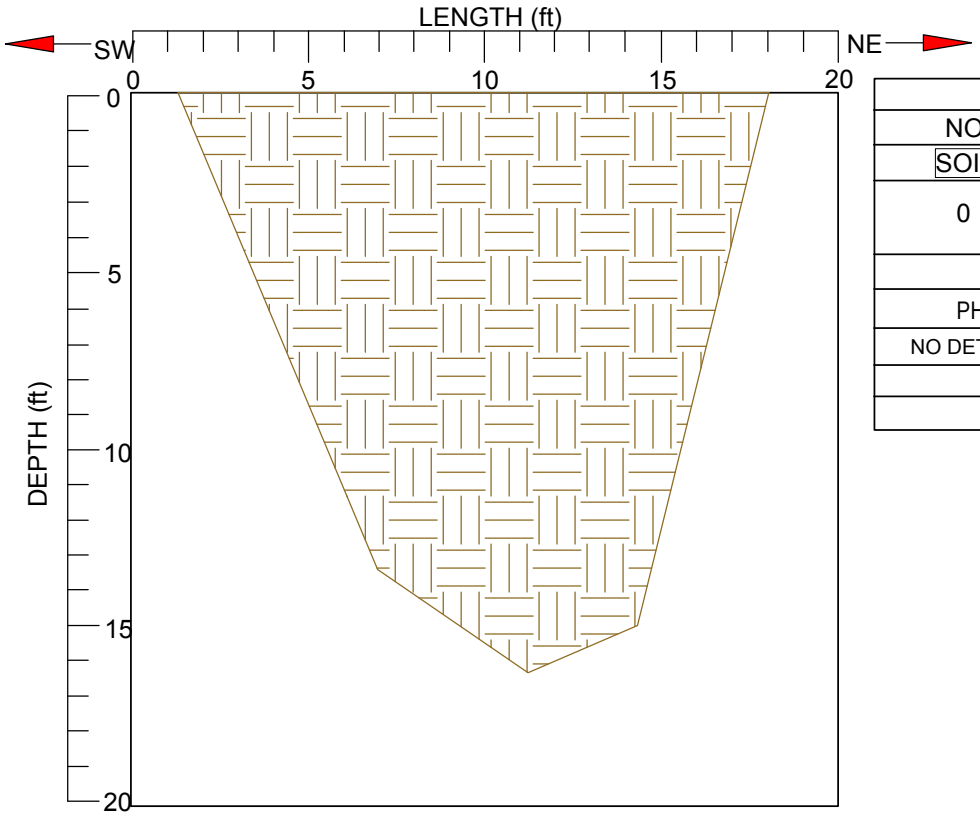
# TEST PIT: TP-108

DATE: 06/17/10
TIME: 14:55

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6963.20
NORTHING: 316452.20
EASTING: 899817.70
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.0 | ML | DARK BROWN SILT AND ROOTS |
| 1.0 | 11.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL, TRACE CLAY, DAMP TO WET |
| 11.5 | 16.5 | GC | MEDIUM GREENISH GRAY CLAYEY GRAVEL, DAMP TO WET |
| | | | |
| | | | |
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| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 15:08 | 16.5 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS SEEPING FROM 11.5 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) TRACE OF WATER SEEPING AT 11.5 FEET

FIELD TEST PIT LOG

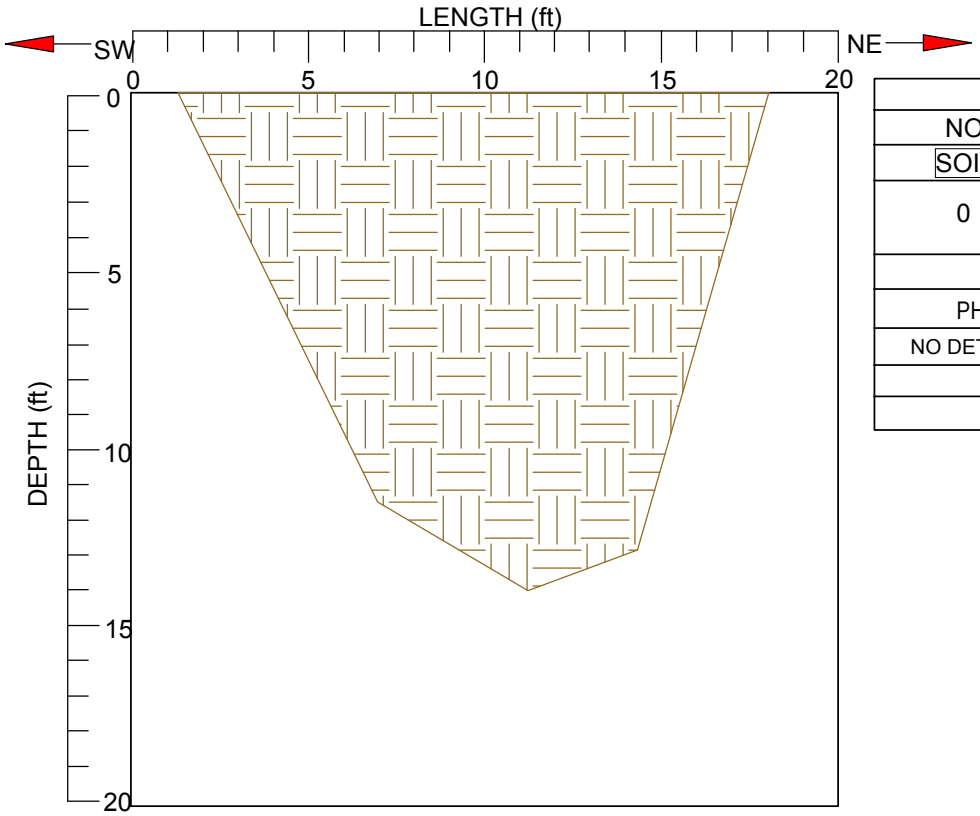
# TEST PIT: TP-109

DATE: 06/17/10
TIME: 15:22

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6960.98
NORTHING: 316254.80
EASTING: 899787.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.5 | ML | DARK BROWN SILT AND ROOTS |
| 1.5 | 7.0 | GM | MEDIUM BROWN SILTY GRAVEL WITH COBBLES, WET |
| 7.0 | 9.5 | GM | GRADES WITH MORE COBBLES |
| 9.5 | 14.0 | GM | GRADES WITH MORE COBBLES AND BOULDERS |
| | | | |
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| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 15:47 | 14 | 12.5 |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS WATER COMING IN FROM 14 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) VERY WET HOLE, FILLING UP WITH WATER QUICKLY, 12.5 NOT A STATIC LEVEL

FIELD TEST PIT LOG

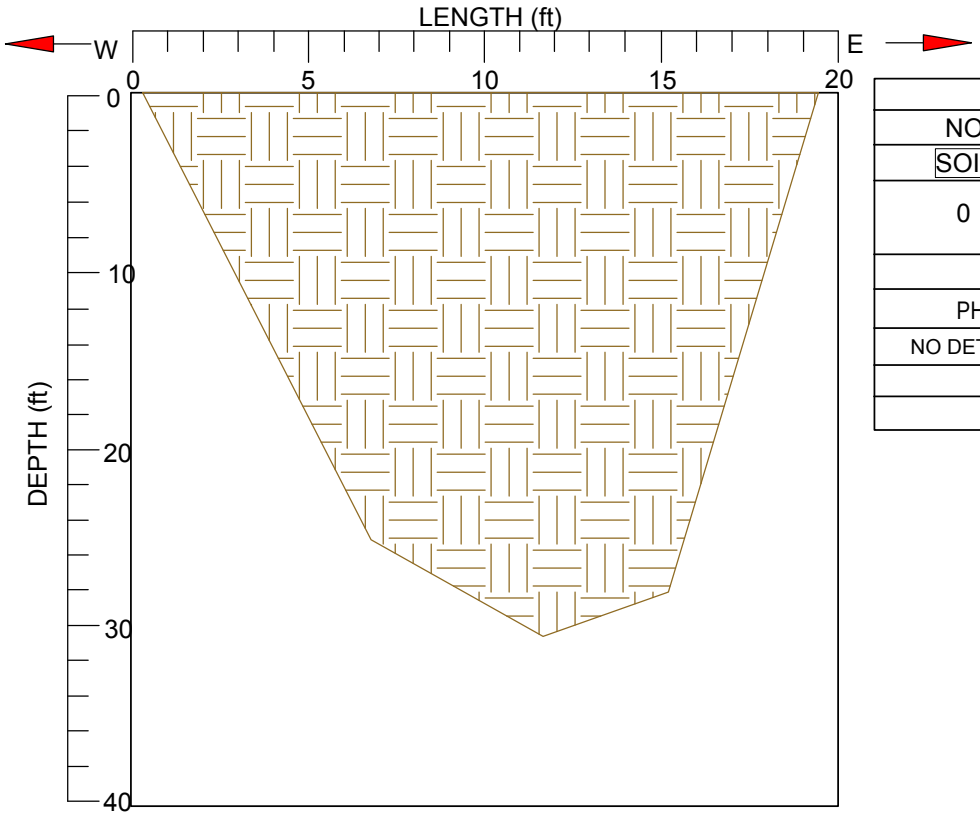
# TEST PIT: TP-110

DATE: 06/14/10 TO 06/16/10
TIME: 15:22

WEATHER: SUNNY, COOL

ELEVATION: 6958.20
NORTHING: 316056.40
EASTING: 899768.10
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.2 | GM | LT GRAY BROWN SILTY GRAVEL AND RUBBLE |
| 1.2 | 2.8 | FILL | CONCRETE FOUNDATION, MOVE EAST |
| 2.8 | 3.5 | GC | DARK GRAY SILTY FINE TO COARSE CLAYEY GRAVEL, SOME ORE, MOIST |
| 3.5 | 9.0 | CL/ML | MEDIUM TO DARK GRAY SILTY CLAY WITH SOME COARSE GRAVEL, WATER COMING INTO PIT |
| 9.0 | 13.5 | GC | LIGHT BROWN SANDY, CLAYEY GRAVEL WITH BOULDERS, COBBLES AND WOOD |
| 13.5 | 15.5 | GC | GRADES LOOSE WITH MORE GRAVEL AND LESS SILTY SAND |
| 15.5 | 24.0 | GM | LIGHT BROWN SILTY FINE TO COARSE GRAVEL WITH SOME FINE TO COARSE SAND |
| 24.0 | 30 | GM | GRADES WITH MORE BOULDERS AND COBBLES |
| | | | |
| | | | |
| | | | |
| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 15:50 6/16/10 | 30 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS WATER COMING IN FROM 9 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

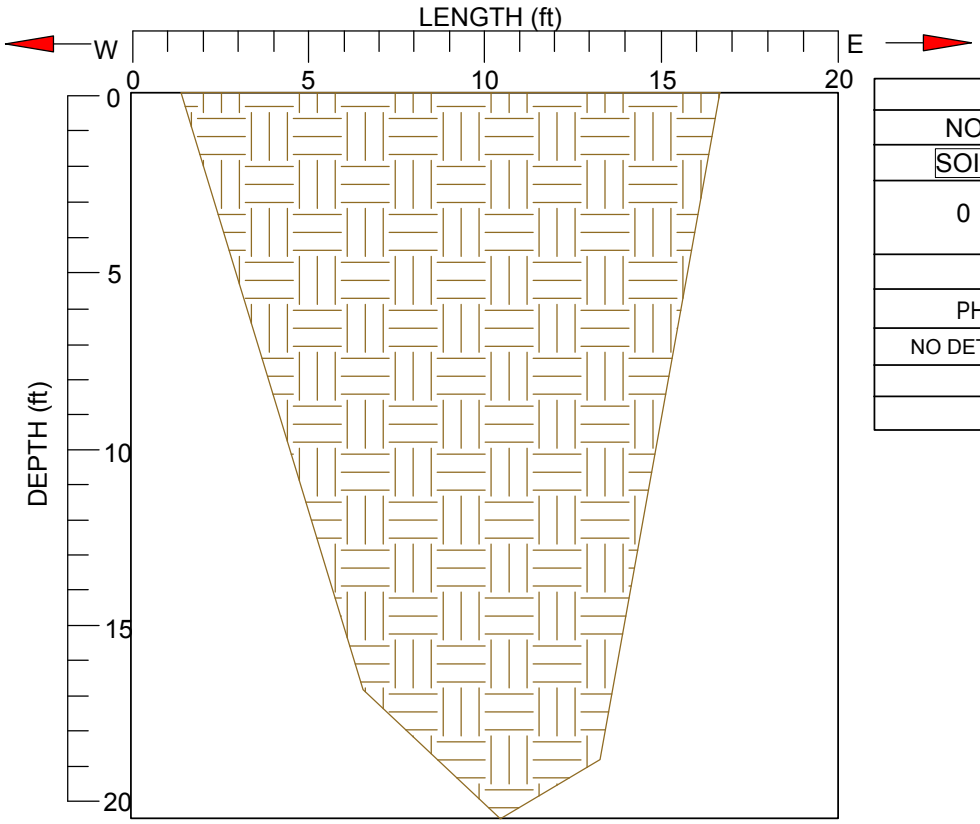
# TEST PIT: TP-111

DATE: 06/17/10
TIME: 16:24

WEATHER: SUNNY, COOL

ELEVATION: 6955.90
NORTHING: 315868.90
EASTING: 899834.60
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.5 | FILL | DARK GRAY SLAG AND SILTY CLAY, DRY AND LOOSE |
| 2.5 | 11 | GM | DARK GRAY TO BLACK SILTY FINE TO COARSE SANDY GRAVEL, SOME COBBLES, SOME BOULDERS, DRY |
| 11 | 13 | GM | GRADES MEDIUM BROWN, MORE BOULDERS |
| 13 | 21 | GM | GRADES WITH LARGE BOULDERS |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 16:48 | 21 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

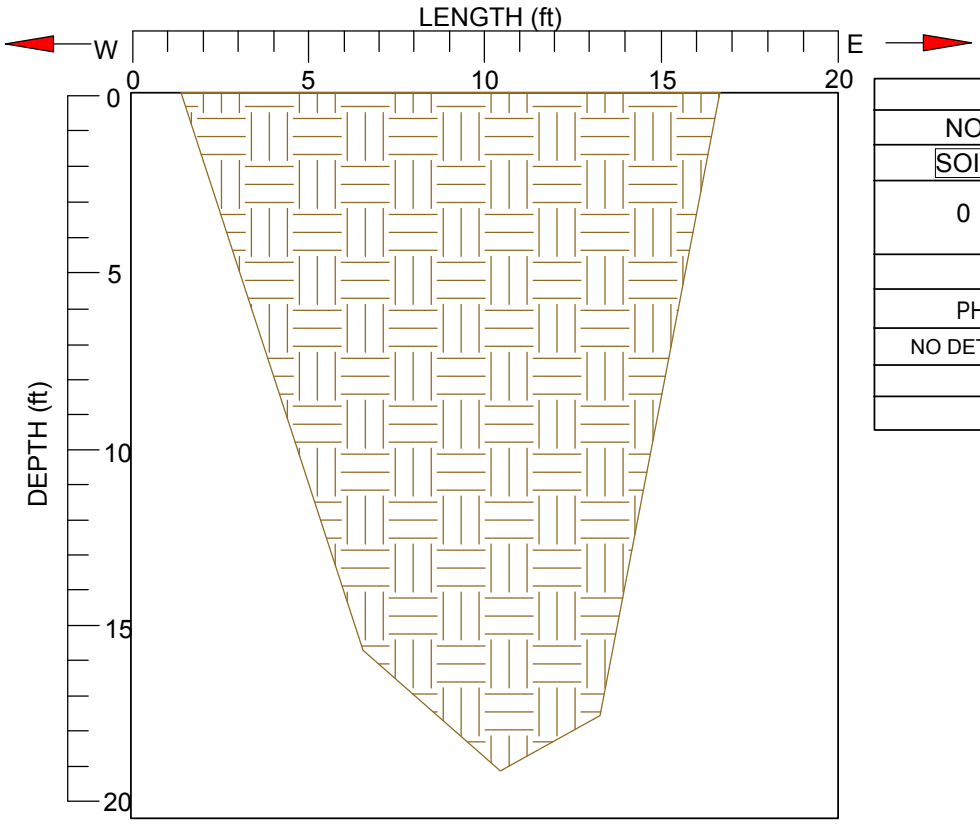
# TEST PIT: TP-112

DATE: 06/18/10
TIME: 09:45

WEATHER: SUNNY, COOL

ELEVATION: 6952.80
NORTHING: 315678.80
EASTING: 899789.90
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.0 | ML | DARK BROWN SILT, TRACE GRAVEL |
| 2.0 | 5.0 | ML/CL | LIGHT GREENISH GRAY SILTY CLAY WITH SOME FINE GRAVEL, MOIST |
| 5.0 | 9.0 | GC | LIGHT GREENISH GRAY SILTY CLAYEY FINE TO COARSE GRAVEL W/SOME COBBLES AND BOULDERS |
| 9.0 | 11.0 | GC | GRADES WITH LARGE BOULDERS/DAMP |
| 11.0 | 12.0 | CL | BLUE TO GRAY SILTY CLAY |
| 12.0 | 14.0 | GC | LIGHT TO MEDIUM BROWN SILTY CLAYEY FINE TO COARSE GRAVEL W/SOME COBBLES AND BOULDERS |
| 14.0 | 19.0 | GM | LIGHT TO MEDIUM BROWN SILTY FINE TO COARSE GRAVEL W/OCCASIONAL BOULDERS |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 9:58 | 19 | DRY |
| | | |
| | | |
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SPECIAL NOTES:

1) NO GROUND WATER IN PIT - NOT CAVING

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

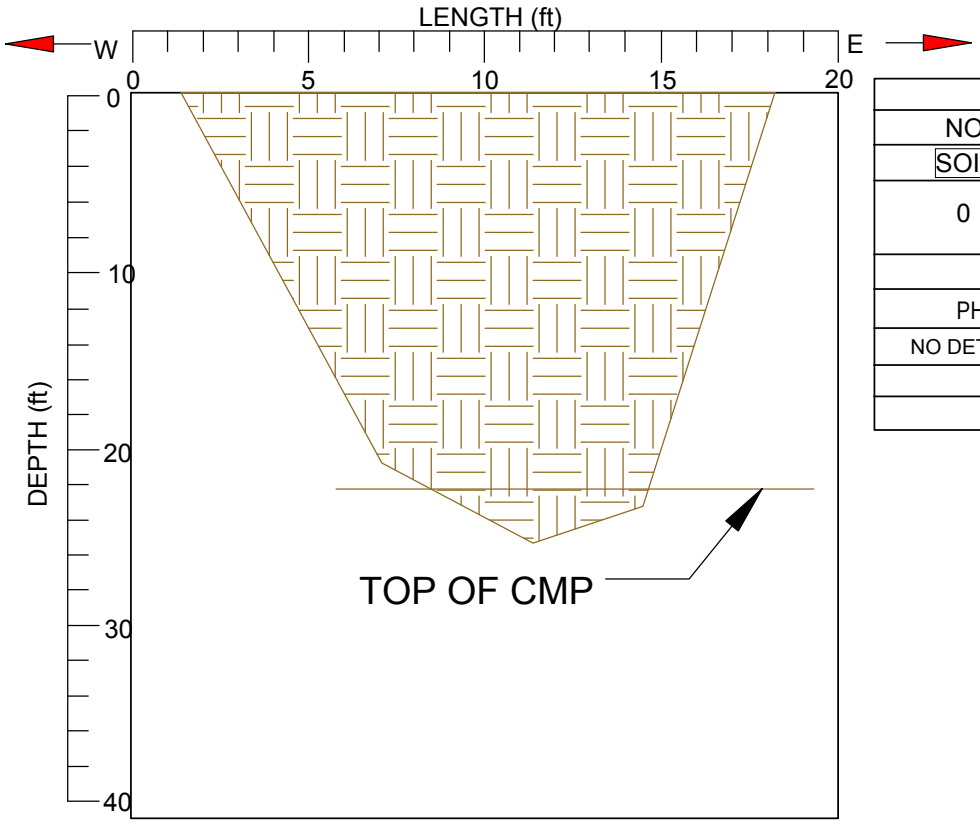
# TEST PIT: TP-113

DATE: 06/22/10
TIME: 08:10

WEATHER: SUNNY, COOL

ELEVATION: 6949.10
NORTHING: 315490.20
EASTING: 899727.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 7.5 | ML | MIXED LIGHT GRAY SLAG AND SILT |
| 7.5 | 14.0 | GM | MEDIUM TO DARK BROWN SILTY FINE TO COARSE SANDY GRAVEL |
| 14.0 | 22.0 | ML | LIGHT BROWN SILT WITH SOME LENSES OF FINE TO COARSE SANDY GRAVEL |
| 22.0 | 25.0 | GW | COBBLES, BOULDERS, BROKEN ROCK WITH SOME FINE TO COARSE SANDY SILT |
| | | | GRADES WITH NATIVE SOIL AND ROOTS AT BASE OF PIT |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 9:58 | 25 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT - STABLE

2) TEST PIT NOT BACKFILLED BUT BEGIN CHANNEL EXCAVATION FROM THIS POINT

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) INTERCEPT CMP AT 6927.42

FIELD TEST PIT LOG

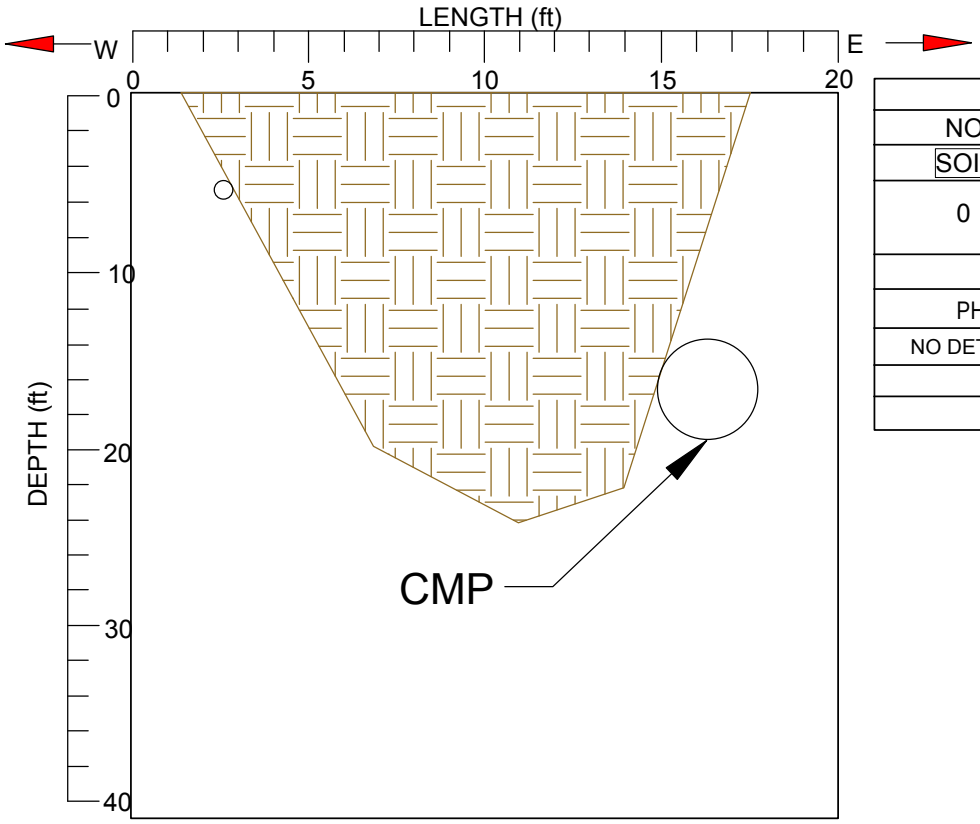
# TEST PIT: TP-115

DATE: 06/23/10
TIME: 08:10

WEATHER: SUNNY, COOL

ELEVATION: 6955.8
NORTHING: N:315941.68
EASTING: E:899826.8
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.0 | FILL | GRAY SLAG AND SILTY GRAVEL, HARD |
| 2.0 | 4.0 | FILL | VERY HARD SLAG LAYER |
| 4.0 | 5.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL |
| 5.5 | 7.0 | GP | GRADES WITH COBBLES, BOULDERS, 4 INCH PIPE AT 5.8 FT |
| 7.0 | 12.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL |
| 12.5 | 24.0 | GMGP | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL AND BOULDERS AND COARSE GRAVEL |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 16:23 | 24.0 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT - STABLE

2) TEST PIT NOT BACKFILLED BUT BEGIN CHANNEL EXCAVATION FROM THIS POINT

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) INTERCEPT CMP AT 6942.75

FIELD TEST PIT LOG

# TEST PIT: TP-101

DATE: 06/18/10
TIME: 8:00

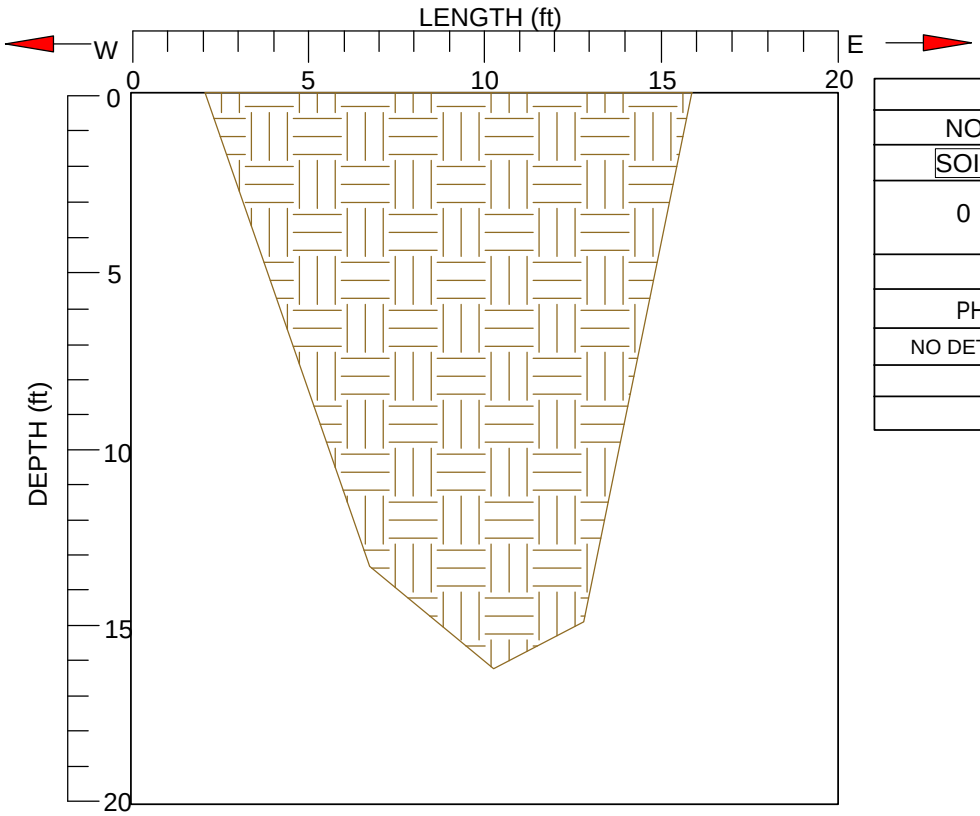
ELEVATION: 6973.30
NORTHING: 317322.10
EASTING: 900263.40
DATUM : MSL

WEATHER: CLEAR, COOL
LITTLE WIND

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT

OPERATOR: CONESTOGA ROVERS (CRA)

ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 0.5 | ML | DARK BROWN SILT WITH ROOTS |
| 0.5 | 2.5 | GM | LT. BROWN SILTY GRAVEL WITH SOME FINE TO COARSE SAND, DRY |
| 2.5 | 8.0 | GM | GRADES DAMP AT 5.5 FT, CAVING |
| 8.0 | 16.0 | GM | SATURATED SOILS, CAVING |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 13:45 | 16.0 FEET | NO WATER |
| | | |
| | | |
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SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS THAT ARE CAVING INTO PIT FROM 8 FEET.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

# TEST PIT: TP-102

DATE: 06/18/10
TIME: 8:25

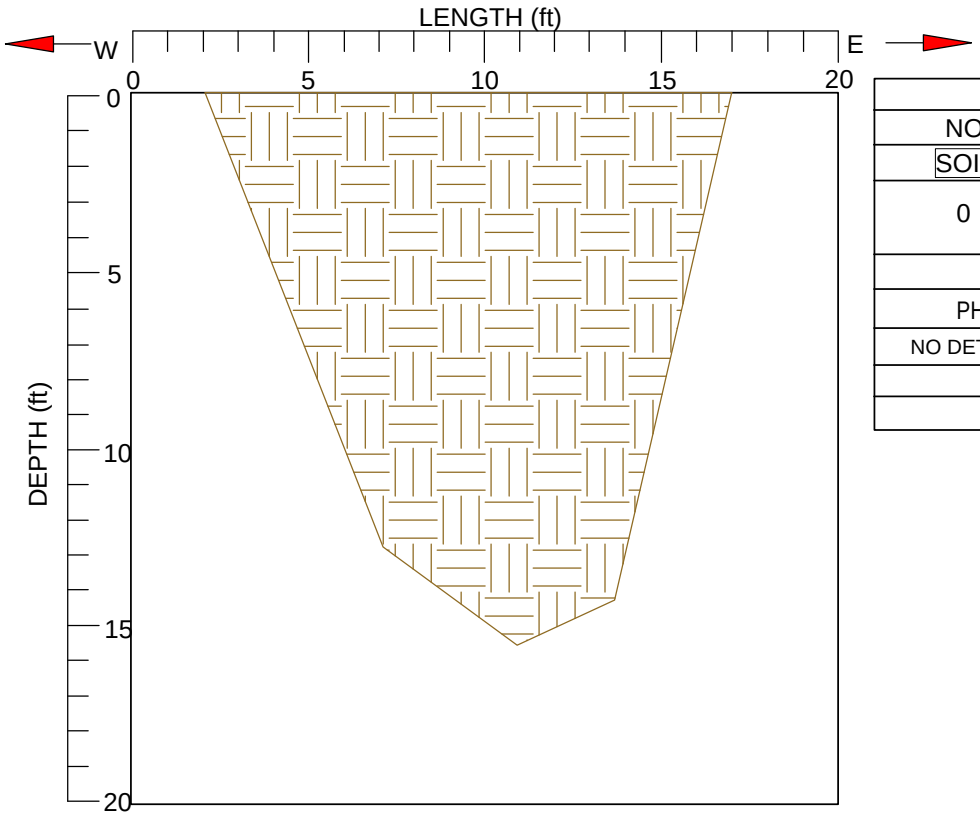
ELEVATION: 6971.90
NORTHING: 317131.20
EASTING: 900205.10
DATUM : MSL

WEATHER: CLEAR, COOL
LITTLE WIND

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT

OPERATOR: CONESTOGA ROVERS (CRA)

ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.0 | FILL | SLAG, HARD |
| 2.0 | 3.5 | GM | LT. BROWN SILTY FINE TO COARSE SANDY GRAVEL, MOIST |
| 3.5 | 5.5 | GC | MEDIUM TO DARK BROWN CLAYEY FINE TO COARSE GRAVEL AND COBBLES, MOIST |
| 5.5 | 8.5 | ML/CL | DARK GRAYISH-BROWN SILTY CLAY, TRACE OF GRAVEL |
| 8.5 | 15.5 | ML/CL | GRADES MEDIUM GRAY IN COLOR, MOIST |
| | | | |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 8:42 | 15.5 | NO WATER |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, DRY

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

# TEST PIT: TP-103

DATE: 06/16/10
TIME: 16:26

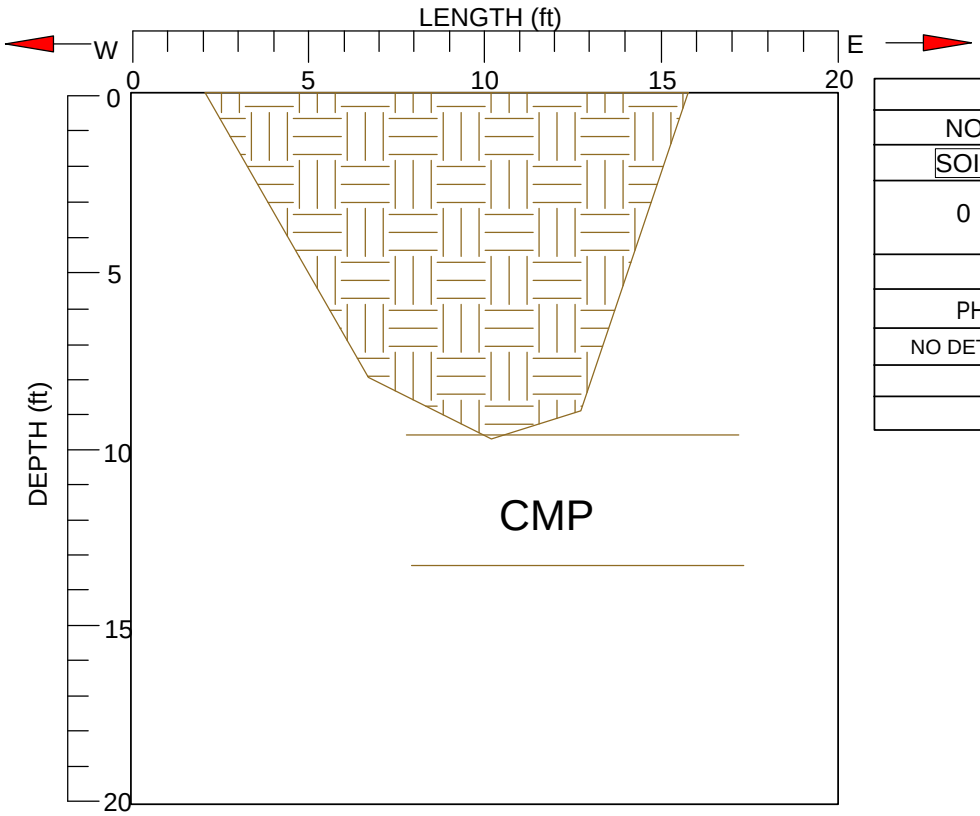
WEATHER: HAIL, COOL

ELEVATION: 6969.40
NORTHING: 316908.30
EASTING: 900043.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT

OPERATOR: CONESTOGA ROVERS (CRA)

ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.5 | FILL | SLAG, HARD, WATER PERCHED AT 3 FEET |
| 2.5 | 7.5 | GC | MEDIUM BROWNISH GRAY CLAYEY GRAVEL, WET |
| 7.5 | 10 | ML | DARK BROWN CLAYEY SILT, SOME FINE GRAVEL, WET |
| | | | INTERCEPT TOP OF CMP AT ABOUT 10 FT, SURVEY IN CMP TOP |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 9:50 ON 6/17 | 10.0 | PERCHED WATER AT 3 FEET |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS SEEPING FROM 3 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) SURVEY IN TOP OF CMP AT 6960.9'

FIELD TEST PIT LOG

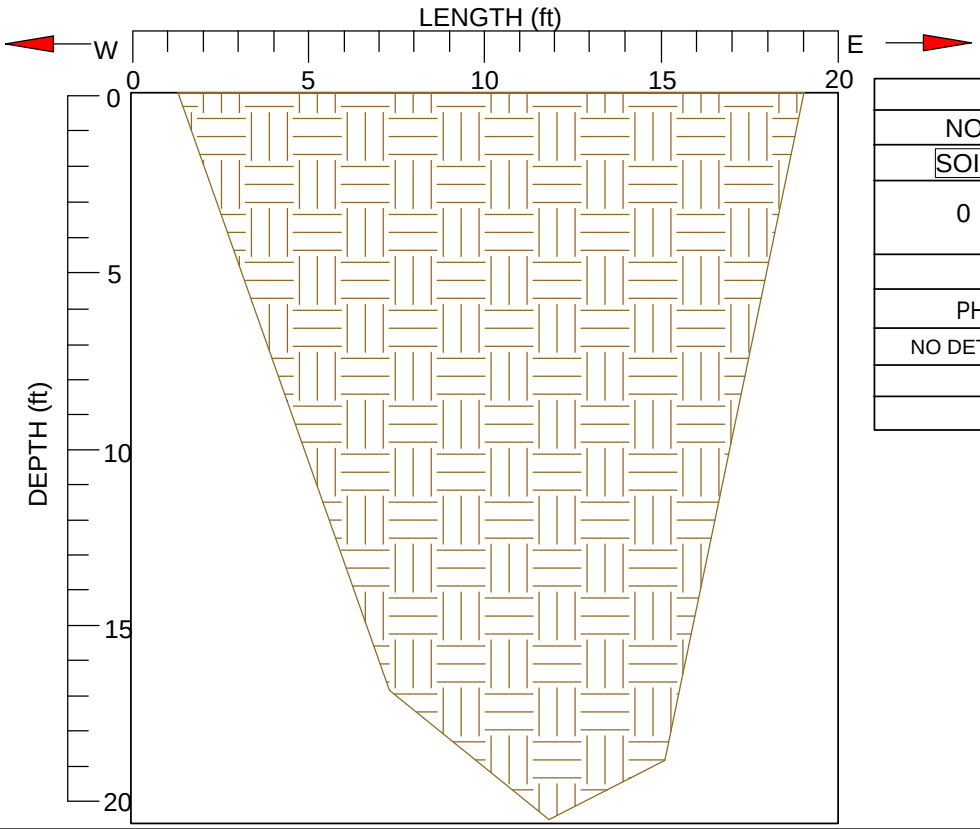
# TEST PIT: TP-104

DATE: 06/17/10
TIME: 10:48

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6969.00
NORTHING: 316813.40
EASTING: 899963.80
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.0 | ML | DARK BROWN SILT WITH ROOTS |
| 1.0 | 9.0 | GM | MEDIUM TO DARK BROWN SILTY FINE TO COARSE SANDY GRAVEL, MOIST TO DAMP |
| 9.0 | 12.5 | GM/GP | SANDY COBBLES AND COARSE GRAVEL, SOME INTERBEDDED SILTY COARSE GRAVEL |
| 12.5 | 19.5 | GM | DARK GRAY SILTY FINE TO COARSE SANDY GRAVEL, WET, SOME WOOD |
| 19.5 | 21 | GP | COBBLES AND BOULDERS, SOME SILT |
| | | | |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 11:04 | 21.0 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, CAVING BACK TO 5 FT

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

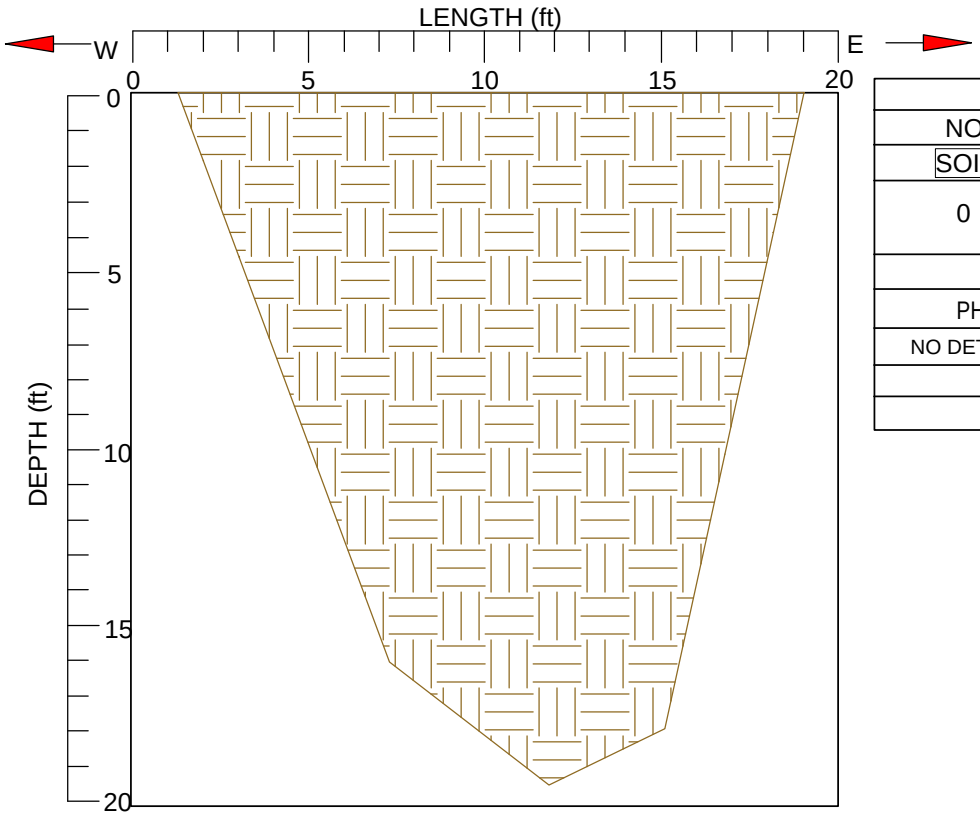
# TEST PIT: TP-105

DATE: 06/17/10
TIME: 12:35

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6968.70
NORTHING: 316736.70
EASTING: 899899.70
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.5 | FILL | LIGHT TO MEDIUM GRAY SLAG, MIXED WITH SILT, DRY |
| 2.5 | 4.5 | ML | MEDIUM BROWN SILT, MOIST |
| 4.5 | 9.0 | GM | MEDIUM BROWN SILTY FINE TO COARSE SAND, GRAVEL, DRY |
| 9.0 | 11.5 | GM | GRADES WITH BOULDERS TO 20 INCHES |
| 11.5 | 19.5 | GM/GP | PREDOM. MEDIUM BROWN GRAVEL AND BOULDERS WITH FINE TO COARSE SANDY SILT |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 14:00 | 19.5 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT,

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) UNSTABLE AND CAVING FROM 8 FEET DOWN

FIELD TEST PIT LOG

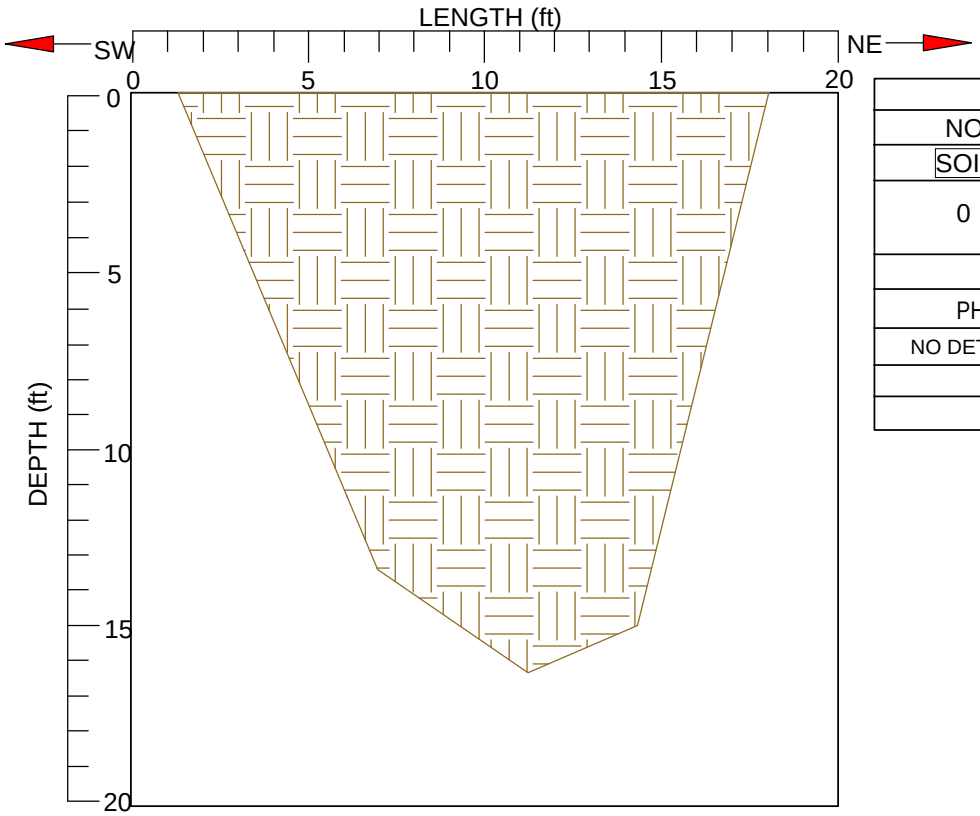
# TEST PIT: TP-106

DATE: 06/17/10
TIME: 14:22

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6968.20
NORTHING: 316649.30
EASTING: 899852.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.0 | ML | LIGHT TO DARK BROWN SILT AND ROOTS |
| 1.0 | 14.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL |
| 14.5 | 16.5 | GC | MEDIUM TO DARK BROWN CLAYEY FINE TO COARSE SANDY GRAVEL WITH SOME COBBLES |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 14:34 | 16.5 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS SEEPING FROM 6 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) TRACE OF WATER SEEPING FROM 6 FEET BUT NO WATER IN PIT

FIELD TEST PIT LOG

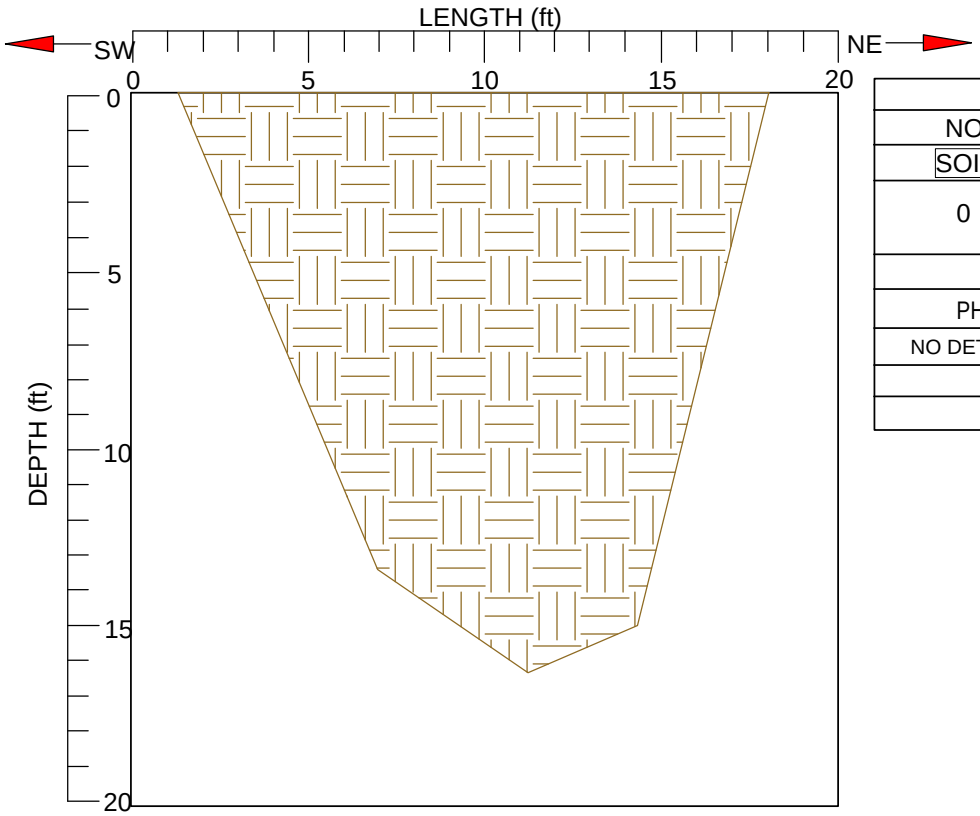
# TEST PIT: TP-108

DATE: 06/17/10
TIME: 14:55

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6963.20
NORTHING: 316452.20
EASTING: 899817.70
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.0 | ML | DARK BROWN SILT AND ROOTS |
| 1.0 | 11.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL, TRACE CLAY, DAMP TO WET |
| 11.5 | 16.5 | GC | MEDIUM GREENISH GRAY CLAYEY GRAVEL, DAMP TO WET |
| | | | |
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| | | | |
| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 15:08 | 16.5 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS SEEPING FROM 11.5 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) TRACE OF WATER SEEPING AT 11.5 FEET

FIELD TEST PIT LOG

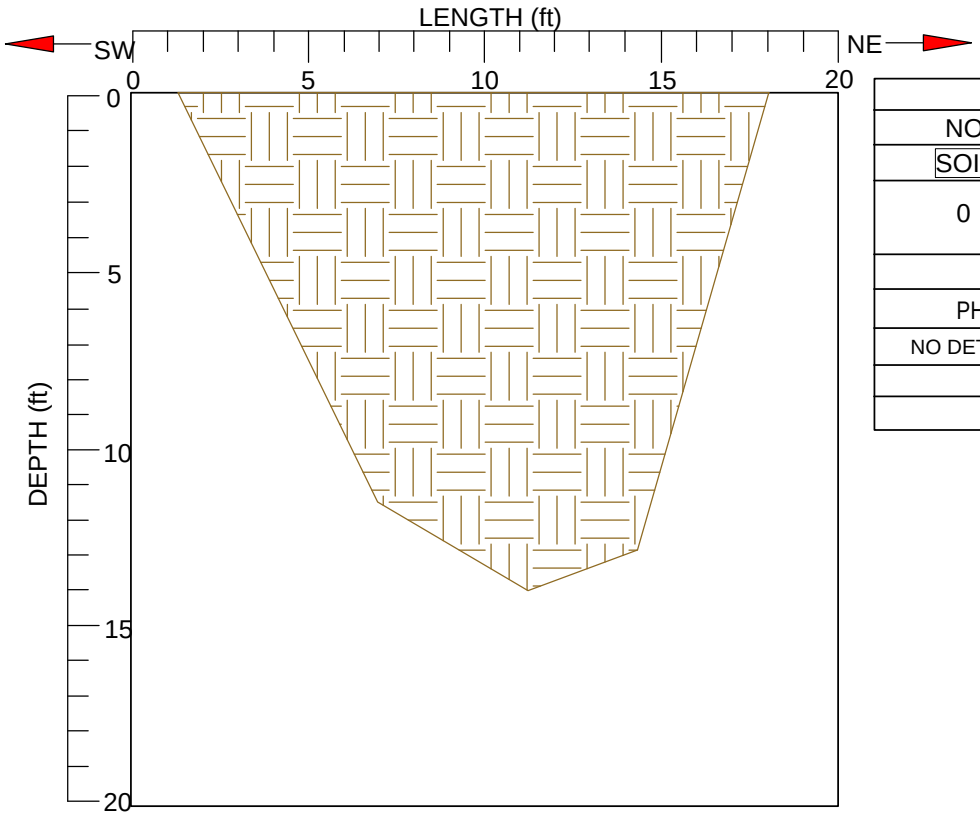
# TEST PIT: TP-109

DATE: 06/17/10
TIME: 15:22

WEATHER: SNOW, RAIN, COOL

ELEVATION: 6960.98
NORTHING: 316254.80
EASTING: 899787.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.5 | ML | DARK BROWN SILT AND ROOTS |
| 1.5 | 7.0 | GM | MEDIUM BROWN SILTY GRAVEL WITH COBBLES, WET |
| 7.0 | 9.5 | GM | GRADES WITH MORE COBBLES |
| 9.5 | 14.0 | GM | GRADES WITH MORE COBBLES AND BOULDERS |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 15:47 | 14 | 12.5 |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS WATER COMING IN FROM 14 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) VERY WET HOLE, FILLING UP WITH WATER QUICKLY, 12.5 NOT A STATIC LEVEL

FIELD TEST PIT LOG

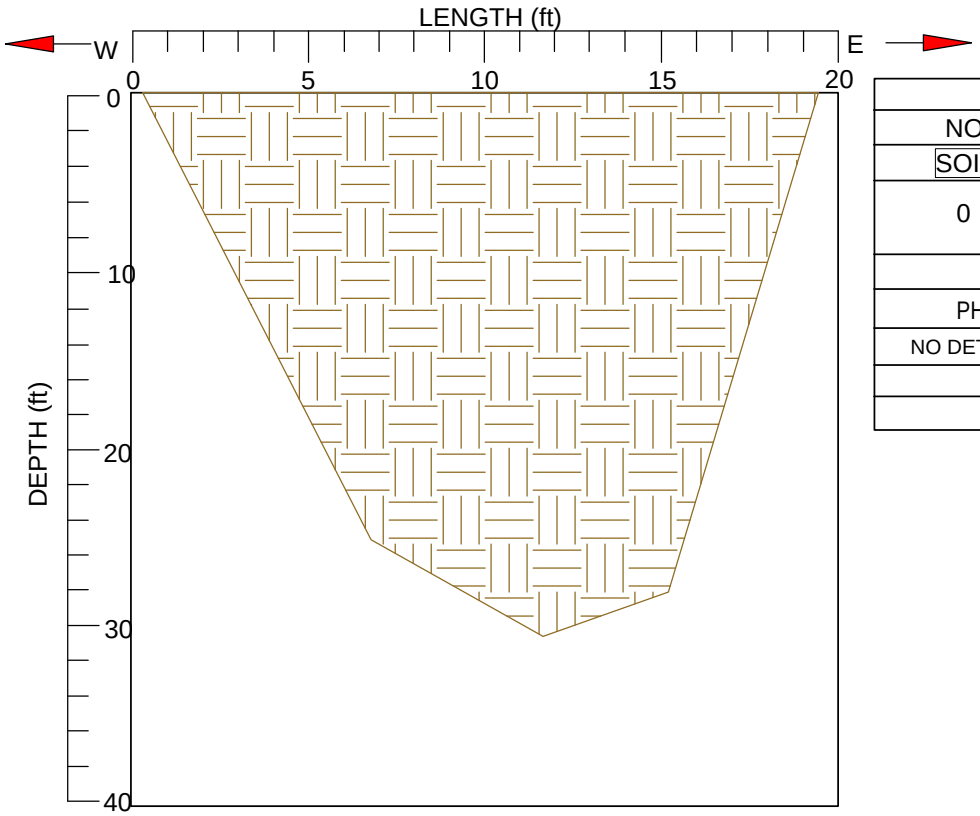
# TEST PIT: TP-110

DATE: 06/14/10 TO 06/16/10
TIME: 15:22

WEATHER: SUNNY, COOL

ELEVATION: 6958.20
NORTHING: 316056.40
EASTING: 899768.10
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

## LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 1.2 | GM | LT GRAY BROWN SILTY GRAVEL AND RUBBLE |
| 1.2 | 2.8 | FILL | CONCRETE FOUNDATION, MOVE EAST |
| 2.8 | 3.5 | GC | DARK GRAY SILTY FINE TO COARSE CLAYEY GRAVEL, SOME ORE, MOIST |
| 3.5 | 9.0 | CL/ML | MEDIUM TO DARK GRAY SILTY CLAY WITH SOME COARSE GRAVEL, WATER COMING INTO PIT |
| 9.0 | 13.5 | GC | LIGHT BROWN SANDY, CLAYEY GRAVEL WITH BOULDERS, COBBLES AND WOOD |
| 13.5 | 15.5 | GC | GRADES LOOSE WITH MORE GRAVEL AND LESS SILTY SAND |
| 15.5 | 24.0 | GM | LIGHT BROWN SILTY FINE TO COARSE GRAVEL WITH SOME FINE TO COARSE SAND |
| 24.0 | 30 | GM | GRADES WITH MORE BOULDERS AND COBBLES |
| | | | |
| | | | |
| | | | |
| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 15:50 6/16/10 | 30 | DRY |
| | | |
| | | |
| | | |

## SPECIAL NOTES:

1) NO GROUND WATER IN PIT, BUT SATURATED SOILS WATER COMING IN FROM 9 FEET INTO PIT.

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

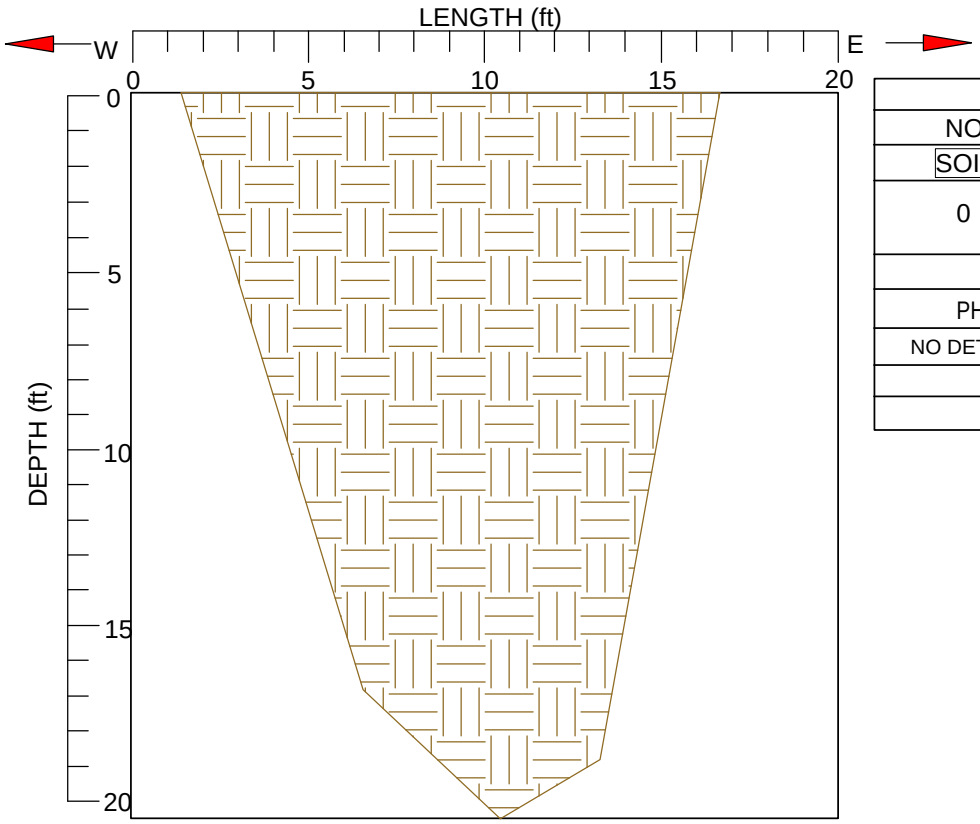
# TEST PIT: TP-111

DATE: 06/17/10
TIME: 16:24

WEATHER: SUNNY, COOL

ELEVATION: 6955.90
NORTHING: 315868.90
EASTING: 899834.60
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.5 | FILL | DARK GRAY SLAG AND SILTY CLAY, DRY AND LOOSE |
| 2.5 | 11 | GM | DARK GRAY TO BLACK SILTY FINE TO COARSE SANDY GRAVEL, SOME COBBLES, SOME BOULDERS, DRY |
| 11 | 13 | GM | GRADES MEDIUM BROWN, MORE BOULDERS |
| 13 | 21 | GM | GRADES WITH LARGE BOULDERS |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 16:48 | 21 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

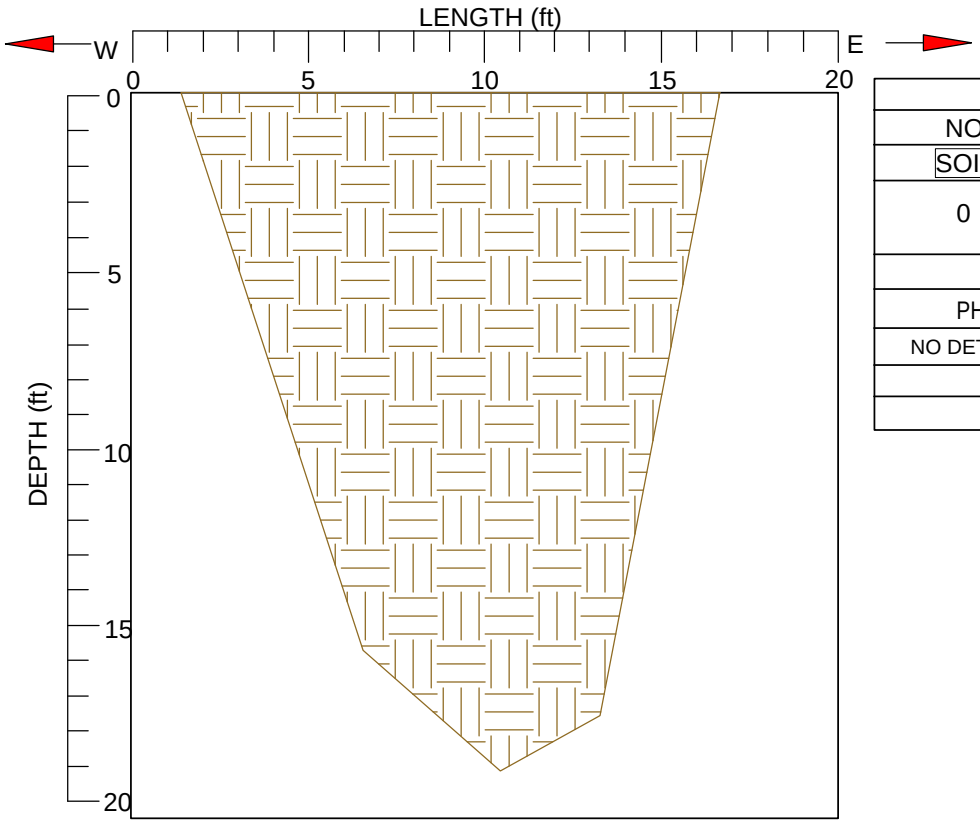
# TEST PIT: TP-112

DATE: 06/18/10
TIME: 09:45

WEATHER: SUNNY, COOL

ELEVATION: 6952.80
NORTHING: 315678.80
EASTING: 899789.90
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.0 | ML | DARK BROWN SILT, TRACE GRAVEL |
| 2.0 | 5.0 | ML/CL | LIGHT GREENISH GRAY SILTY CLAY WITH SOME FINE GRAVEL, MOIST |
| 5.0 | 9.0 | GC | LIGHT GREENISH GRAY SILTY CLAYEY FINE TO COARSE GRAVEL W/SOME COBBLES AND BOULDERS |
| 9.0 | 11.0 | GC | GRADES WITH LARGE BOULDERS/DAMP |
| 11.0 | 12.0 | CL | BLUE TO GRAY SILTY CLAY |
| 12.0 | 14.0 | GC | LIGHT TO MEDIUM BROWN SILTY CLAYEY FINE TO COARSE GRAVEL W/SOME COBBLES AND BOULDERS |
| 14.0 | 19.0 | GM | LIGHT TO MEDIUM BROWN SILTY FINE TO COARSE GRAVEL W/OCCASIONAL BOULDERS |
| | | | |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 9:58 | 19 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT - NOT CAVING

2) TEST PIT BACKFILLED WITH EXCAVATED MATERIAL AND COMPACTED UPON COMPLETION

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

FIELD TEST PIT LOG

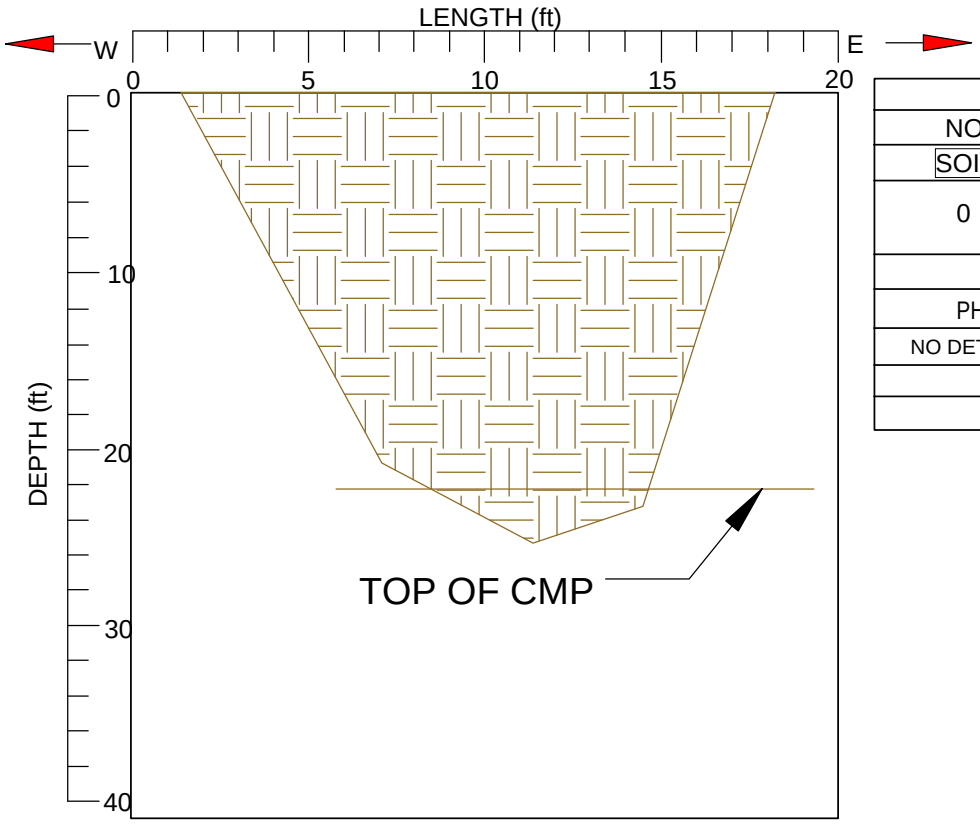
# TEST PIT: TP-113

DATE: 06/22/10
TIME: 08:10

WEATHER: SUNNY, COOL

ELEVATION: 6949.10
NORTHING: 315490.20
EASTING: 899727.20
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 7.5 | ML | MIXED LIGHT GRAY SLAG AND SILT |
| 7.5 | 14.0 | GM | MEDIUM TO DARK BROWN SILTY FINE TO COARSE SANDY GRAVEL |
| 14.0 | 22.0 | ML | LIGHT BROWN SILT WITH SOME LENSES OF FINE TO COARSE SANDY GRAVEL |
| 22.0 | 25.0 | GW | COBBLES, BOULDERS, BROKEN ROCK WITH SOME FINE TO COARSE SANDY SILT |
| | | | GRADES WITH NATIVE SOIL AND ROOTS AT BASE OF PIT |
| | | | |
| | | | |
| | | | |
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| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 9:58 | 25 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT - STABLE

2) TEST PIT NOT BACKFILLED BUT BEGIN CHANNEL EXCAVATION FROM THIS POINT

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) INTERCEPT CMP AT 6927.42

FIELD TEST PIT LOG

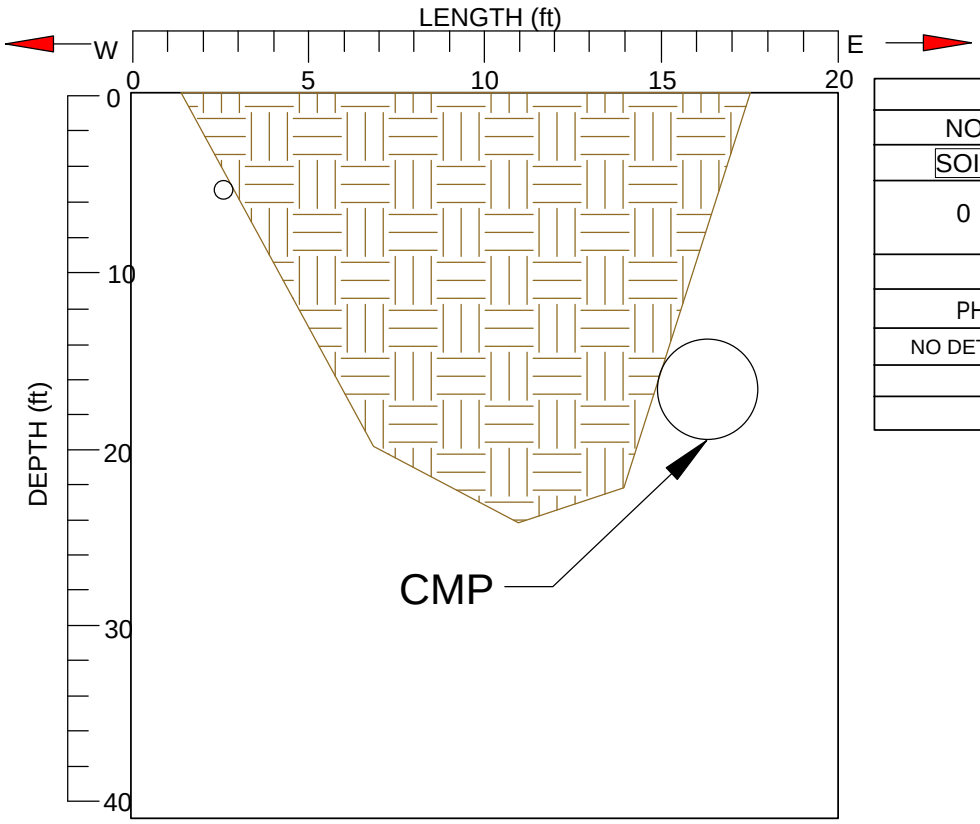
# TEST PIT: TP-115

DATE: 06/23/10
TIME: 08:10

WEATHER: SUNNY, COOL

ELEVATION: 6955.8
NORTHING: N:315941.68
EASTING: E:899826.8
DATUM : MSL

SITE: CENTRAL FARMERS FERTILIZER FACILITY
GEORGETOWN CANYON ALONG STREAM CHANNEL FOOTPRINT
OPERATOR: CONESTOGA ROVERS (CRA)
ENGINEERS: JB BROWN, P.G.




| SAMPLES | |
|---|---|
| NO. | DEPTH |
| SOIL | |
| 0 | NO SAMPLE OBTAINED |
| AIR IN PPM | |
| PH3 = 0.0 | HCN = 0.0 |
| NO DETECTS OF PH3 OR HCN | |
| | |
| | |

LITHOLOGIC DESCRIPTIONS AND EXCAVATION NOTES

| DEPTH (ft) FROM | TO | USCS | DESCRIPTION |
|---|---|---|---|
| 0 | 2.0 | FILL | GRAY SLAG AND SILTY GRAVEL, HARD |
| 2.0 | 4.0 | FILL | VERY HARD SLAG LAYER |
| 4.0 | 5.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL |
| 5.5 | 7.0 | GP | GRADES WITH COBBLES, BOULDERS, 4 INCH PIPE AT 5.8 FT |
| 7.0 | 12.5 | GM | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL |
| 12.5 | 24.0 | GMGP | MEDIUM BROWN SILTY FINE TO COARSE SANDY FINE GRAVEL AND BOULDERS AND COARSE GRAVEL |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| TIME | DEPTH OF HOLE | DTW |
|---|---|---|
| 16:23 | 24.0 | DRY |
| | | |
| | | |
| | | |

SPECIAL NOTES:

1) NO GROUND WATER IN PIT - STABLE

2) TEST PIT NOT BACKFILLED BUT BEGIN CHANNEL EXCAVATION FROM THIS POINT

3) NO EVIDENCE OF ELEMENTAL PHOSPHORUS AIR QUALITY CONTINUALLY MONITORED WITH VRAE FOR PH3 AND HCN

4) INTERCEPT CMP AT 6942.75

**APPENDIX G**

# DRAFT REMEDIAL ACTION COMPLETION PLAN OPERATION AND MAINTENANCE AND POST- CLOSURE CARE PLAN CENTRAL FARMERS FERTILIZER FACILITY IN GEORGETOWN CANYON, IDAHO NU-WEST INDUSTRIES, INC. and NU-WEST MINING, INC.

September 27, 2011

Prepared By:

GLOBAL ENVIRONMENTAL TECHNOLOGIES L.L.C.

SALT LAKE CITY, UTAH

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|---|---|
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|---|---|
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# 1.0 INTRODUCTION

This document addresses the operation and maintenance (O&M), post-closure care, and monitoring activities for the remedial action construction work completed during 2009 and 2010 at the Central Farmers Fertilizer Facility site in Georgetown Canyon. Post-closure care specifically addresses monitoring of the caps at the clarifier, furnace, slurry pit, ore pile and monitoring of the CMP bypass stream channel and side drainages. This document presents descriptions of routine O&M, potential problems, and reporting.

Nu-West owns the land on which the clarifier, furnace, slurry pit, and ore cover are sited and the land surrounding the site. The Forest Service controls the right to the easement that includes the Forest Service road through the site and 33 feet on either side of the easement centerline. The site is fenced off from the public, or blocked by the new stream channel, and the gates are kept locked. The clarifier is additionally protected by a ringed boulder barricade that restricts access to the cap. Site access has been further restricted near Tank Spring with the placement of boulder access barricades. West-facing "No Trespassing" signs are posted at regular intervals (approximately every 500 feet) along the east side of the creek on the site and on the fences. Emergency contact phone numbers for Nu-West will be posted on the gate signs. It is Nu-West's current intent to retain ownership of these lands. The land occupied by the clarifier, furnace, slurry pit, and ore cover will remain as unused open space through deed restriction and environmental covenant, as filed by Nu-West with the IDEQ in December 2010. No vehicular traffic will be allowed on any of the remedial covers except as necessary to access monitoring wells for compliance monitoring, weed control, or other maintenance activities that require wheeled-vehicles. Access roads have been established for this purpose. Access to the site will be restricted to authorized personnel by entrance through the locked gates on the south property boundary or at the north boundary.

All records generated during the post-closure care period will be retained in the Nu-West environmental office at Dry Valley, or at succeeding environmental office

locations. These records will be retained for the life of the remedial actions and through the post-closure period, as defined by the IDEQ.

## 1.1 Normal Operation and Maintenance

Long-term maintenance of site remedial actions will consist of inspections and correction of problems identified in the inspections. Maintenance activities will be initiated if a problem is identified during a routine inspection or monitoring activity, or at any time when problems are identified that present an immediate threat to human health and the environment. Maintenance inspections will also be made after extreme weather events, such as the 100-year, 24-hour event (3.80 inches), or after forest fire in the vicinity of the site or at locations immediately upstream of the site. If planned maintenance activities or non-time critical actions are scheduled to be implemented based on problems noted during a previous inspection, a five-day advance notice to IDEQ will be made by Nu-West. The completed remedial actions area will be inspected by a member of the Nu-West environmental department or designee on a quarterly basis for the first two years following completion of the remedial actions, as shown on the monitoring schedule on Figure 1. This site inspection schedule will be modified to semiannual with the concurrence of IDEQ following the review of the first 2 years of collected monitoring data. Fourth quarter inspections should be achievable as long as the inspector accesses the site prior to the on-set of winter and heavy snows, typically before mid-November. Nu-West will advise IDEQ if the site is frozen and snow covered and unavailable for inspection during these quarters. The site will be inspected as soon as is practical after snowmelt allows access to the site. Depending on site winter conditions, the inspector may not identify or be able to correct any problems identified until after snowmelt.

The inspections will be documented in a permanent logbook that will be part of the records retained in the Nu-West environmental office at Dry Valley and in a checklist for inspection that will be completed each time that the site is inspected. The site inspections will include:

- Observations of the conditions of remedial covers on the furnace, clarifier, ore cover and slurry pit including signs of animal burrowing, deep-rooted plants or trees, erosion, ponded water, or settlement;

- Semi-annual survey of cover settlement monuments by a surveyor trained and proficient in the use of modern survey-grade GPS equipment using a Trimble 5800 Real-Time Kinematic (or equivalent) Surveying System and documentation of net differential settlement calculations of each respective cover;

- Monitoring of stream diversions, improved channels and CMP bypass channel and channel benches, weirs, riprap, erosion control blankets, crossing outlets and documentation of any piping or washout of underlying filter gravel through the rip rap or areas on slopes requiring repair;

- Monitoring depressions resulting from settlement of any subsurface infrastructure and actions that will be taken to backfill surface depressions to surrounding grade;

- Documentation of the condition of the sediment pond embankment for evidence of erosion, slope failure, encroaching deep-rooting vegetation and borrowing animals including a careful inspection of the outlet structure to ensure that it is not plugged and is operating properly. The approximate freeboard between the top of the sediment stored in the pond and the pond outlet invert will also be noted and the level maintained to no less than one foot beneath the overflow;

- Documentation of unimpeded flow from the overflow outlet on the sediment pond to the creek;

- Documentation of discharge from Tank Spring and other springs or points of discharge into the main stream channel;

- Documentation of unimpeded flow through culverts installed as part of the remedial action;

- Documentation of the condition of the Syncline Spring collection and conveyances through the culvert and to the main stream channel;

- Documentation of the condition of silt berms and silt fences (not intended to be maintained for the life of this plan), water bars, water diversions and other site BMPs that are used to control direction and concentration of surface water runoff around covers and spoils piles;

- Documentation of the surface conditions and runoff from Phosphoria Gulch;

- Documentation of the condition of site cover vegetation;

- Documentation within the general site area for evidence of erosion or slope failure, particularly in areas adjacent to the road where erosion, falling rocks or slope failures may endanger vehicle traffic;

- Documentation that the site security fences are intact and that posted signs and Nu-West emergency contact phone numbers are visible;

- Documentation of vandalism or unauthorized vehicle traffic at the site;

- Documentation that the monitor wells have not been disturbed, and;

- Inspecting the length of the CMP alignment and documentation of any site ground surface settlement that may be the result of CMP settlement.

The clarifier, furnace, ore cover and slurry pit cover inspections will include the following items:

- Identification of trees or other deep-rooting plants growing on the slurry pit, the clarifier and the ore covers. Any deep-rooting species will be removed. Weed growth will be monitored on the reclaimed areas and herbicide will be applied as required.

- Channel inspections around caps;

- Documentation that willows or other trees or shrubs are not encroaching on the slurry pit cover;

- Inspection of the covers for holes or erosion. Erosion rills on the furnace cover will be repaired if these exceed 8 inches in depth. Areas of erosion greater than 10 square feet in size on the slurry pit or the clarifier will be scheduled for repair. If the area of erosion exposes the geocomposite materials on the slurry pit, ore cover or the clarifier, then the area will be repaired as soon as is practical. IDEQ will be notified a minimum of five working days prior to significant repairs on any of the engineered structures, so that a IDEQ representative can be present to witness the repair of the problem.

- Depressions and/or ponded water on the slurry pit or east of the slurry pit, the clarifier cover or cover over the ore in Phosphoria Gulch will be noted. These areas will be scheduled for repair.

- Signs of burrowing animals on the covers of the slurry pit, ore cover or the clarifier will be addressed. If significant burrowing activity is identified, additional rock armoring or varmint control may be required.

In Phosphoria Gulch, the slope where the ore pile was previously located will be inspected for signs of erosion and for signs of any disturbance on the ore cap. Diversion structures will be observed to ensure that erosion from the slope is contained behind the temporary straw wattles or temporary silt fence until reclamation efforts result in established vegetation. Repairs to the silt fences or straw wattles will be made if damage to the barriers result in soil erosion before vegetation is established. Roads above the slope that were graded during the Phase I construction will be maintained to shed runoff water away from the slope during establishment of vegetation on the slope.

The fence inspection will be made for security purposes. The inspections will include verifying the integrity of the site fences, that the gates are locked and that all warning signs are properly posted and visible. Holes in the fences will be repaired and missing locks will be replaced. Missing or unreadable signs will also be scheduled for replacement.

## 1.2 Potential Problems

The purpose of the inspections described above is to identify potential problems and address these problems in a timely manner. Potential foreseeable problems that could be encountered at the site include:

- Obstructed flow in Tank Spring channel resulting from leaves, tree branches, or other materials resulting in site flooding;
- Failure of rip rap or undercutting of banks or slopes in any of the site open channels (this is most likely to occur following a large storm event or spring runoff);
- Failure of drainages or sediment control measures within Phosphoria Gulch;
- Occlusion of flow in site culverts;

- The occurrence of plants with deep tap roots or trees that become established on the slurry pit or the clarifier or phosphorus ore pile covers;
- Erosion of the soil covers, berms, channel slopes, armor, or riprap;
- Failure of vegetation to establish in reclaimed areas;
- Failure of trees to establish on channel benches;
- Settling of the slurry pit cover, ore cover or the clarifier covers;
- Burrowing or digging by animals;
- Off-road damage caused by ORVs;
- Vandalism, and;
- Other acts of nature.

### 1.2.1 Deep Rooting Plants

Plants that have deep tap roots include trees, shrubs, and several noxious weeds. Tap roots could penetrate the geocomposite, flexible membrane cover liner (FML), and geosynthetic clay cover liner (GCL) if plants with these characteristics are allowed to grow on the covers of the slurry pit, ore cover or the clarifier. Deep tap-rooted plants can provide a path for infiltration of precipitation or snowmelt through the covers. The covers were seeded with an approved reclamation mixture of grasses and several other seed-bearing plants during reclamation in 2009 and 2010. The seeded areas will be sprayed with an approved agricultural herbicide to control the noxious weeds on an as-needed basis. Nu-West is not planning to plant any trees or shrubs around the remedial action covers.

### 1.2.2 Erosion

Erosion of the soil covers on the clarifier could eventually result in exposure of the geocomposite materials if the problem is not rectified. If the cover liner materials are

exposed, damage could occur due to degradation from exposure to the weather (i.e. freeze and thaw cycles). Damage to the geomembrane layers can allow infiltration of meteoric water into the underlying waste materials. Erosion will be minimized by establishment of the vegetation from seeding during reclamation and by the installed erosion control blankets on the furnace cover, clarifier covers, and on the stream channel slopes. It is not expected that the armor on the slurry pit or ore cover will be affected by erosion.

Erosion may occur at some locations along the stream channel slopes. Runoff from Georgetown Canyon Road could also result in slope erosion on the side of the channel. In areas where saturation exists in near surface soils, sloughing of the slope could occur and cause damage to the erosion control blankets. Soils are particularly susceptible to erosion prior to establishment of vegetation. Erosion-control blankets on the length of the stream channel will be inspected after snowmelt to check for movement of matting, topsoil, mulch, or erosion. If there are washouts, breakage, or erosion, Nu-West will repair the surfaces, reseed, re-mulch, replace topsoil, or install new netting as needed if vegetation is not yet established.

The erosion control blankets are only necessary to help the vegetation become established and have a limited life expectancy. The Type 2D blanket is expected to remain functional for 18 to 24 months and the Type 3B blanket has a functional longevity of approximately 36 months. Areas would be reseeded and erosion control blankets will be repaired if possible, or be replaced as necessary if vegetation has not yet been established.

Any erosion blanket material observed in the stream will be removed from the water. Other causes of erosion may be from points of concentrated runoff. These areas will be noted during the site inspections and repairs to problems promoting the concentrated runoff will be scheduled. Inspections of the erosion control blankets will continue until vegetation is established and documented.

Erosion of rip rap or stream weirs may also occur as the result significant runoff events. If rip rap or stream structures become undermined and resulting erosion of the stream banks occur, steps will be taken to initiate repairs to the rip rap and underlying filter gravel and stream banks in order to restore the structures and stream banks to previous conditions.

### 1.2.3 Settling of Covers

Settlement monuments were installed during the Phase I remedial capping work and will be monitored as scheduled on the slurry and clarifier caps as shown on Figure 1. Results will be compared with the baseline survey from October 2009 to assess both vertical and horizontal deflection on the covers.

Large depressions and/or areas of ponded water indicate that the cover or covered waste materials may have settled. If excessive settling occurs, the integrity of the synthetic covers could be compromised. The damage that could occur ranges from slight stretching of the geomembranes to large tears. As described above, any breach of the synthetic materials provides a path for infiltration of water. Settling of the facilities should be minimal because the ore was compacted to about 95 percent beneath the cover construction. The linear low density geomembrane covers have high tensile strength and high impact and puncture resistance. These cover materials are flexible and will elongate under stress, accommodating a greater degree of ground settlement or movement without damage to the slurry pit or clarifier covers. Cover settlements on permanent monuments exceeding two feet of differential settlement will be investigated for signs of stress or damage to the FML.

### 1.2.4 Burrowing Animals

Burrowing or deep digging animals pose the same problem described above because the synthetic material could be damaged, which would provide a pathway for infiltration. The presence of burrowing animals will be noted during the quarterly/semiannual

inspections. If burrowing animals are present, the necessary positive steps to eliminate their threat will be taken.

### 1.2.5 Culvert Maintenance

Site culverts will require regular attention to verify that the pipes are clear of any materials that could form blockages and cause potential failure. Observations of the site culverts include:

- Obstructions in the culvert inlets should be removed. If these obstructions reoccur frequently, assess contributing cause to prevent future occurrences.
- Watch for signs of leakage or infiltration around the outside of culverts or for signs of flow loss within the culverts.
- Watch for cracks in the sediment pond berm or near or beneath chute spillways conveying water from culverts to the stream channel. If cracks occur, immediate repair will be required.
- Observe areas where rip rap may be undermined around culverts and on chute spillways or moving on the slope and repair as necessary to restore functionality.

## 1.3 Site Reclamation

If any of the reclaimed areas indicate that vegetation does not become established, or if areas requiring repair need to be re-seeded, this will be documented in the inspections and re-seeding of areas will be required. Areas will be re-seeded with the same mix used during the Phase II reclamation activities, as shown in Table 1.

Willows and other woody species will need to be maintained on the benches to reduce stream velocities and bank erosion. The recommended frequency for maintaining woody species is every three feet on the outside of bends of the stream and every eight feet on the inside of bends and along straight sections. Additional woody species shall be planted if these distances are exceeded by a factor of two.

# 2.0 ROUTINE MONITORING

## 2.1 Remedial Action Monitoring Tasks

Monitoring activities for the remedial actions area during the post-closure period include both ground and surface water monitoring, and inspection of the covers and reclamation work as described in Section 1 at the frequencies shown on Figure 1.

## 2.2 Ground Water Monitoring

Ground water samples will be collected and analyzed semi-annually (spring and fall) from selected wells as shown on Figure 2. This monitoring activity is described in the approved Sampling and Analysis Plan (SAP) for the Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho and the Quality Assurance Project Plan (GET, April 19, 2004). Monitor wells that will be sampled include GT-1, GT-2, GT-3, GT-4, GT-5, GT-6, GT-7 and GT-8. Well GT-7 which has not been sampled since 2005 will be sampled in 2011 (for 2 events) and annually thereafter for four additional years as the result of the significant changes in the site bedrock water levels following the activation of the new stream channel in 2010. Results of well GT-7 will be compared to pre-RAP results to assess any changes in the water quality in the bedrock aquifer.

Table 2 presents the list of ground water analytes. Ground water monitoring will continue on a semi-annual basis throughout the Remedial Action and post-closure monitoring period as shown on Figure 1 to evaluate the impacts to ground water resulting from the completed actions. Ground water monitoring will continue through the remedial action period for a minimum of five years into the post-closure period on a semi-annual basis. At that time, IDEQ will perform a 5-year review of the collected data to determine if monitoring frequencies or the analyte list can be modified.

## 2.3 Surface Water Monitoring

Surface water samples will be collected and analyzed semi-annually (spring and fall) from locations shown on Figure 3. Table 2 presents the list of surface water analytes. This monitoring activity is described in the approved Sampling and Analysis Plan (SAP) for the Central Farmers Fertilizer Facility in Georgetown Canyon, Idaho and the Quality Assurance Project Plan (GET, April 19, 2004).

Surface water monitoring which will include sample collection and flow measurement will occur at sites GTSW-1, GTSW-2, GTSW-3, GTSW-4, GTSW-5 and GTSW-6 at the frequency shown on Figure 1. Two of these sites will be relocated to new monitoring sites as the result of the channel and sediment pond construction. Sample site GTSW-2 will be relocated upstream to N:315832 E: 899839 to assess change in flow and any impact to surface water from the site. This location is south of the lower crossing outlet but above the sediment pond culvert. Site GTSW-6 will be moved to the sediment pond culvert outlet. Flow measurements and samples will be obtained from the end of the culvert. General site observations will be made of snow conditions, weather and soil moisture, and other conditions that may affect observed surface water flow rates. Other supporting data for surface water sampling conditions (such as Slug Creek) can be obtained from local NRCS or NWS data sources. Supporting data and site observations will be documented in the hardbound daily field log book to provide context for the amounts of runoff observed.

Surface water sampling will continue through the remedial action period for a minimum of five years into the post-closure period on a semi-annual basis as shown on Figure 1. At that time, IDEQ will perform a 5-year review of the collected data to determine if monitoring frequencies or the analyte list can be modified.

## 2.4 Cover Settlement Surveying

Four settlement markers (SP-1 through SP-4) are located on the slurry pit cover. Three additional settlement markers (SP-5 through SP-7) are located on the clarifier cover. Locations of the settlement markers are shown on Figure 4. Settlement monitoring verifies that adequate slopes, designed to shed precipitation from the caps, are being maintained. Monitoring of these benchmarks will be completed on a semiannual basis for a minimum of 2 years using the state plane coordinate system (NAD 83). Surveying will be performed by a surveyor trained in the use of modern GPS equipment using a Trimble 5800 Real-Time Kinematic (or equivalent) Surveying System. Surveying precision is dependent upon satellite positions at any given time, but accuracy tolerances generally are less than 0.03 feet horizontally and 0.05 feet vertically.

Survey monitoring will be conducted at least semiannually for the first two years, then at least annual for the next three years until the first five-year review. An assessment will be made after two years to identify if the monitoring frequency can be reduced to an annual, or less frequent basis. A mitigation plan will be developed to assess reshaping drainage patterns on an affected cover if settlement causes the top slope of the clarifier cap or the slurry pit cap to settle more than 10 percent from original grade or if the adjacent survey monuments on each cover show differential settlement greater than 2 feet, or if observed depressions are forming on the covers.

# 3.0 SAFETY REQUIREMENTS

## 3.1 Inspection Activities

The exposure during the routine inspections will be small since the waste materials and site soils are covered by the remedial actions. No specific safety requirements are mandated for inspections of the remedial actions. No intrusive work is anticipated without written consent from IDEQ. However, air monitoring (for phosphine and HCN) will be utilized for any approved intrusive work at capped areas detailed in the environmental covenant.

Due to the elevated location, roughness of the terrain, and variety of weather conditions expected, appropriate clothing and footwear should be worn. Normal O&M will be performed by one inspector, unless the work is performed in frozen or snow covered conditions. A satellite phone will be available for this project during these inspections.

## 3.2 Monitoring Activities

### 3.2.1 Ground and Surface Water Monitoring

During the pumping and collection of ground water samples, the following personnel protective equipment shall be worn (at a minimum) if bailing equipment are used; appropriate work clothes, hard hat (rig operator), safety glasses, and steel-toed shoes. Secure footwear or appropriate stream waders shall be worn when working in Georgetown Creek during the surface water measurement activities. Nitrile gloves shall be worn while collecting samples to protect the worker from potential exposure and to protect the sample from potential contamination. Raingear may prove helpful.

## 3.3 Reporting Emergencies

All emergencies, including but not limited to medical emergencies, system failures, fires, etc., must be reported to Nu-West. The standard method of reporting emergencies is to assess the situation and then make a report to either the Environmental or Safety Departments. If the emergency is life threatening or the area must be evacuated, initiate the emergency medical service and then report the emergency to Nu-West.

## 4.0 PERSONNEL AND TRAINING

Personnel involved with performing the inspection or monitoring activities will be required to receive training before they will be allowed to perform these duties. The purpose of the training is to provide instruction to all new qualified inspectors of the site inspection requirements prior to commencing O&M work. Additional site training will be provided annually by a Nu-West designee. Personnel performing maintenance work at the site will have adequate site training and specific training to identify white phosphorous and potential hazards of phosphine gas. When new personnel complete the training requirement, they will sign a statement attesting that they have received the training. This statement will be part of the training records that will be maintained in the environmental office.

The training will consist of the following elements:

- Nu-West safety policies and rules;
- Site remedial actions;
- Identification of and associated hazards of white phosphorous and phosphine gas;
- Review of the elements of the O&M plan;
- Inspection requirements;
- Monitoring requirements;
- Reporting requirements, and;
- Emergency procedures.

Site hazards are covered under the site Health and Safety Plan. MSDS for white phosphorus, cyanide and phosphine are provided as attachments to the site Health and Safety Plan. Inspection personnel will be required to follow procedures and policies required by the plan.

# 5.0 RECORD KEEPING AND REPORTING

## 5.1 Inspection Records

The quarterly (semiannual after 2 years) inspections, and other inspections required to address O&M activities detailed in this plan will be recorded on the Central Farmers Fertilizer Facility Post-Closure Inspection Checklist attached to this plan and in a bound logbook that is designated for the site. The results of each inspection will be recorded and then the logbook entry will be signed and dated by the inspector. Each inspection report will start on the top of a new page so that there will not be multiple inspection reports on one page. The Nu-West Environmental Department will store and maintain the logbook. Additionally, the post-closure inspection checklist will document field inspections described in Chapters 1 and 2 of this O&M document. These checklist sheets will be submitted to IDEQ in the annual report for the site.

## 5.2 Monitoring Records

Records of the monitoring activities will be kept in the same logbook that the inspections are kept. Each monitoring activity will be recorded, signed, and dated by the person performing the work. Records from each monitoring activity will start on the top of a new page, as discussed above.

## 5.3 Maintenance Records

Maintenance activities are a direct result of an inspection or monitoring report. The need for maintenance of any of the remedial actions will be recorded in the inspection/monitoring logbook and on the post-closure inspection checklist. When the maintenance activity has been completed, a description of the completed work will be recorded in the log book and described on the next inspection checklist. The Nu-West environmental department will keep the maintenance activity file for the maintenance completed at the site.

## 5.4 Reporting Requirements

Nu-West will provide IDEQ with a summary of the remedial actions inspection, monitoring, and maintenance activities on an annual basis with the annual monitoring report following completion of the remedial actions by February 1 of the following year. Nu-West will provide a summary of data collected and evaluate the performance of the corrective action. The report will summarize the data collected and evaluate it with regards to the performance of the corrective action and the impact of the remediated site on the surrounding environment. The analysis within the report will also address trends. Copies of log entries, checklists, notes, and analytical test results produced during the reporting year will be included. If any repairs are performed, the annual report will describe the repairs and present as-built drawings of the repairs along with other relevant CQC and CQA data. This annual report will include a statement of Nu-West's compliance with the approved Operation and Maintenance and Post-Closure Care plan.

**TABLE 1**
**RECLAMATION SEED MIXTURE**

| **Species** | **Common Name** | **Bulk Pounds per Acre** | **% of Mix** | **Description** |
|---|---|---|---|---|
| **Grasses** | | | | |
| *Bromus marginatus* | Mountain Brome | 7 | 14% | Cool season, short lived perennial bunchgrass, adapted to wide spectrum of soils, Establishes quickly on disturbed sites. Recommended for riparian zones. |
| *Pascopyrum smithii* | Western Wheatgrass | 8 | 16% | Cool season, long-lived, sod-forming perennial, adapted to wide spectrum of soils, Recommended for revegetation and erosion control. Recommended for riparian zones. |
| *Phleum pratense* | Timothy | 4 | 8% | Rapidly-developing, short-lived, perennial bunchgrass, adapted to wide spectrum of soils. Winterhardy and persistent. Recommended for riparian zones. |
| *Elymus cinereus* | Basin Wildrye | 9 | 18% | Hardy, robust, long-lived, native, perennial bunch-grass, adapted to wide spectrum of soils, Recommended for reclamation. Recommended for riparian zones. |
| *Elymus lanceolatus* | Streambank Wheatgrass | 8 | 16% | Drought tolerant, rapidly-establishing, long-lived perennial sod-forming bunchgrass well adapted to stabilizing disturbed soils. Ideal for reclamation areas. |
| *Festuca arundinacea* | Tall Fescue | 8 | 16% | Deep-rooted, cool-season, perennial bunchgrass, adapted to wide spectrum of soils. Useful for erosion control along waterways. Recommended for riparian zones. |
| **Total Grasses** | | ***44*** | 92% | |
| **Wildflowers/Forbs** | | | | |
| *Trifolium Fragiferum* | Strawberry Clover | 6 | 12% | Low-creeping perennial forb with creeping stems. Recommended for reclamation areas. Recommended for riparian zones. |
| **Total Wildflowers/Forbs** | | ***6*** | 12% | |
| **Total Grasses and Wildflowers/Forbs** | | ***50*** | 100% | |

**TABLE 2**
**GEORGETOWN CANYON**
**GROUND AND SURFACE WATER**
**PARAMETERS AND ANALYTICAL METHODS**

| Analyte | Analytical Method | Holding Time | Method Detection Limit |
|---|---|---|---|
| | | | |
| **FIELD PARAMETERS** | | | |
| Specific Conductance | Field | | 10 uS/cm |
| pH | Field | | 0.01 units |
| Temperature | Field | | 0.1 degree C° |
| Turbidity | Field | | 0.01 ntu |
| | | | |
| **LABORATORY PARAMETERS** | | | |
| **Wet Chem** | | | |
| Alkalinity | SM 2320 B, Titrimetric | 14 Days | 2.0 mg/l |
| Total Dissolved Solids | EPA M160.1 Gravimetric, 180 C | 7 Days | 10.0 mg/l |
| Total Suspended Solids | EPA M160.2 Gravimetric, 105 C | 7 Days | 5.0 mg/l |
| Specific Conductance | EPA M120.1 Wheatstone Bridge | 28 Days | 1.0 umhos/cm |
| Ion Balance | 1030F & API | | |
| pH | EPA M150.1 Meter | Immediate | 0.1 (units) |
| Bicarbonate | SM 2320 B, Titrimetric | 14 Days | 2.0 mg/l |
| Carbonate | SM 2320 B, Titrimetric | 14 Days | 2.0 mg/l |
| Chloride | EPA M325.2 Colorimetric | 28 Days | 1.0 mg/l |
| Fluoride | EPA M340.2 Ion Specific Electrode | 28 Days | 0.1 mg/l |
| Nitrate+Nitrite | EPA M353.2 Automated Colorimetric | 28 Days | 0.02 mg/l |
| Sulfate | EPA M300.0 Ion Chromatography | 28 Days | 0.5 mg/l |
| Phosphorous | EPA M365.1 Automated Colorimetric | 28 Days | 0.01 mg/l |
| | | | |
| Metals List –2 | | | |
| Metals Digestion | EPA M3010 | | |
| Aluminum | EPA Method 200.7 ICP | 6 Months | 30 ug/l |
| Arsenic | EPA Method 200.8 ICP/MS | 6 Months | 0.5 ug/l |
| Antimony | EPA Method 200.8 ICP/MS | 6 Months | 0.2 ug/l |
| Cadmium | EPA Method 200.7 ICP | 6 Months | 3 ug/l |
| Calcium | EPA Method 200.7 ICP | 6 Months | 200 ug/l |
| Chromium | EPA Method 200.7 ICP | 6 Months | 10 ug/l |
| Iron | EPA Method 200.7 ICP | 6 Months | 10 ug/l |
| Magnesium | EPA Method 200.7 ICP | 6 Months | 200 ug/l |
| Manganese | EPA Method 200.7 ICP | 6 Months | 5 ug/l |
| Mercury | EPA Method 200.8 ICP/MS | 28 days | 0.05 ug/l |
| Potassium | EPA Method 200.7 ICP | 6 Months | 300 ug/l |
| Selenium | M200.8 ICP-MS | 6 Months | 0.1 ug/l |
| Sodium | EPA Method 200.7 ICP | 6 Months | 300 ug/l |
| Vanadium | EPA Method 200.7 ICP | 6 Months | 5.0 ug/l |
| Zinc | EPA Method 200.7 ICP | 6 Months | 10 ug/l |

1. MDL, reported by ACZ Labs. Reporting limits vary with dilution.
2. Total and dissolved analysis will be performed

# CENTRAL FARMERS GEORGETOWN CANYON OPERATION AND MAINTENANCE AND POST- CLOSURE SCHEDULE THROUGH 2015

| Task Name | 2011 H1 | 2011 H2 | 2012 H1 | 2012 H2 | 2013 H1 | 2013 H2 | 2014 H1 | 2014 H2 | 2015 H1 | 2015 H2 | 2016 H1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 1st Q Site Inspection O&M Monitoring | /15 3/15 | | | | | | | | | | |
| 2010 Annual Report | 28 4/1 | | | | | | | | | | |
| Transmit Annual Report | 4/1 | | | | | | | | | | |
| 2011 After Snowmelt Monitoring | 4/22 4/22 | | | | | | | | | | |
| 2011 2nd Q Site Inspection O&M Monitoring | 5/16 5/17 | | | | | | | | | | |
| 2011 1st Round Settlement Marker Survey | 6/15 6/15 | | | | | | | | | | |
| 2011 1st Round Surface Water Monitoring | 6/15 6/15 | | | | | | | | | | |
| 2011 1st Round Surface Water Sampling | 6/16 6/16 | | | | | | | | | | |
| 2011 1st Round Ground Water Sampling | 6/16 6/17 | | | | | | | | | | |
| 2011 3rd Q Site Inspection O&M Monitoring | | 9/5 9/5 | | | | | | | | | |
| 2011 2nd Round Settlement Marker Survey | | 9/5 9/5 | | | | | | | | | |
| 2011 2nd Round Surface Water Monitoring | | 10/3 10/3 | | | | | | | | | |
| 2011 2nd Round Surface Water Sampling | | 10/4 10/4 | | | | | | | | | |
| 2011 2nd Round Ground Water Sampling | | 10/5 10/6 | | | | | | | | | |
| 2011 4th Q Site Inspection O&M Monitoring | | 10/7 10/7 | | | | | | | | | |
| | | | | | | | | | | | |
| 2012 1st Q Site Inspection O&M Monitoring | | | 3/15 3/15 | | | | | | | | |
| 2011 Annual Report | | 12/1 | 2/1 | | | | | | | | |
| Transmit Annual Report | | | 2/1 | | | | | | | | |
| 2012 2nd Q Site Inspection O&M Monitoring | | | 5/16 5/17 | | | | | | | | |
| 2012 1st Round Settlement Marker Survey | | | 6/15 6/15 | | | | | | | | |
| 2012 1st Round Surface Water Monitoring | | | 6/15 6/15 | | | | | | | | |
| 2012 1st Round Surface Water Sampling | | | 6/18 6/18 | | | | | | | | |
| 2012 1st Round Ground Water Sampling | | | 6/18 6/19 | | | | | | | | |
| 2012 3rd Q Site Inspection O&M Monitoring | | | | 9/5 9/5 | | | | | | | |
| 2012 2nd Round Settlement Marker Survey | | | | 9/5 9/5 | | | | | | | |
| 2012 2nd Round Surface Water Monitoring | | | | 10/3 10/3 | | | | | | | |
| 2012 2nd Round Surface Water Sampling | | | | 10/4 10/4 | | | | | | | |
| 2012 2nd Round Ground Water Sampling | | | | 10/5 10/8 | | | | | | | |
| 2012 4th Q Site Inspection O&M Monitoring | | | | 10/9 10/9 | | | | | | | |
| | | | | | | | | | | | |
| IDEQ 2-Year Evaluation of Site Monitoring | | | | 12/20 | 2/20 | | | | | | |
| IDEQ Decision on Changes in Monitoring Frequency | | | | | 2/20 | | | | | | |
| | | | | | | | | | | | |
| 2013 1st Q Site Inspection O&M Monitoring | | | | | 3/15 3/15 | | | | | | |

Project: 5 year post closure o&m inspe
Date: Thu 7/21/11

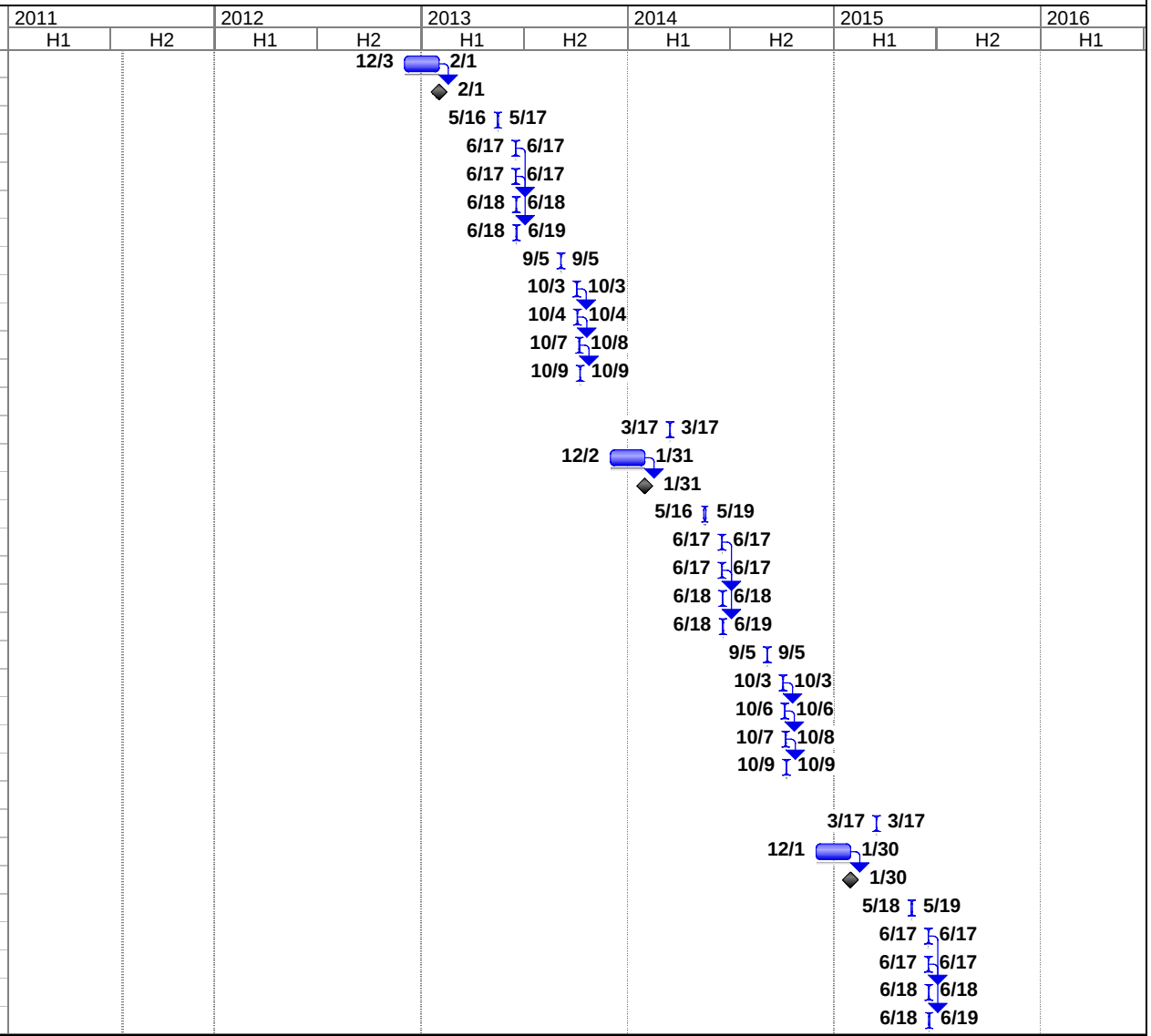
| | | | | | |
|---|---|---|---|---|---|
| Task | | Rolled Up Task | | External Tasks | |
| Progress | | Rolled Up Milestone | | Project Summary | |
| Milestone | | Rolled Up Progress | | Group By Summary | |
| Summary | | Split | | Deadline | |



FIGURE 1

# CENTRAL FARMERS GEORGETOWN CANYON OPERATION AND MAINTENANCE AND POST- CLOSURE SCHEDULE THROUGH 2015

| Task Name | Start | Finish |
|---|---|---|
| 2012 Annual Report | 12/3 | 2/1 |
| Transmit Annual Report | 2/1 | 2/1 |
| 2013 2nd Q Site Inspection O&M Monitoring | 5/16 | 5/17 |
| 2013 Settlement Marker Survey | 6/17 | 6/17 |
| 2013 1st Round Surface Water Monitoring | 6/17 | 6/17 |
| 2013 1st Round Surface Water Sampling | 6/18 | 6/18 |
| 2013 1st Round Ground Water Sampling | 6/18 | 6/19 |
| 2013 3rd Q Site Inspection O&M Monitoring | 9/5 | 9/5 |
| 2013 2nd Round Surface Water Monitoring | 10/3 | 10/3 |
| 2013 2nd Round Surface Water Sampling | 10/4 | 10/4 |
| 2013 2nd Round Ground Water Sampling | 10/7 | 10/8 |
| 2013 4th Q Site Inspection O&M Monitoring | 10/9 | 10/9 |
| | | |
| 2014 1st Q Site Inspection O&M Monitoring | 3/17 | 3/17 |
| 2013 Annual Report | 12/2 | 1/31 |
| Transmit Annual Report | 1/31 | 1/31 |
| 2014 2nd Q Site Inspection O&M Monitoring | 5/16 | 5/19 |
| 2014 Settlement Marker Survey | 6/17 | 6/17 |
| 2014 1st Round Surface Water Monitoring | 6/17 | 6/17 |
| 2014 1st Round Surface Water Sampling | 6/18 | 6/18 |
| 2014 1st Round Ground Water Sampling | 6/18 | 6/19 |
| 2014 3rd Q Site Inspection O&M Monitoring | 9/5 | 9/5 |
| 2014 2nd Round Surface Water Monitoring | 10/3 | 10/3 |
| 2014 2nd Round Surface Water Sampling | 10/6 | 10/6 |
| 2014 2nd Round Ground Water Sampling | 10/7 | 10/8 |
| 2014 4th Q Site Inspection O&M Monitoring | 10/9 | 10/9 |
| | | |
| 2015 1st Q Site Inspection O&M Monitoring | 3/17 | 3/17 |
| 2014 Annual Report | 12/1 | 1/30 |
| Transmit Annual Report | 1/30 | 1/30 |
| 2015 2nd Q Site Inspection O&M Monitoring | 5/18 | 5/19 |
| 2015 Settlement Marker Survey | 6/17 | 6/17 |
| 2015 1st Round Surface Water Monitoring | 6/17 | 6/17 |
| 2015 1st Round Surface Water Sampling | 6/18 | 6/18 |
| 2015 1st Round Ground Water Sampling | 6/18 | 6/19 |




Project: 5 year post closure o&m inspe
Date: Thu 7/21/11

| | | | | | |
|---|---|---|---|---|---|
| Task | | Rolled Up Task | | External Tasks | |
| Progress | | Rolled Up Milestone | | Project Summary | |
| Milestone | | Rolled Up Progress | | Group By Summary | |
| Summary | | Split | | Deadline | |



FIGURE 1

# CENTRAL FARMERS GEORGETOWN CANYON OPERATION AND MAINTENANCE AND POST- CLOSURE SCHEDULE THROUGH 2015

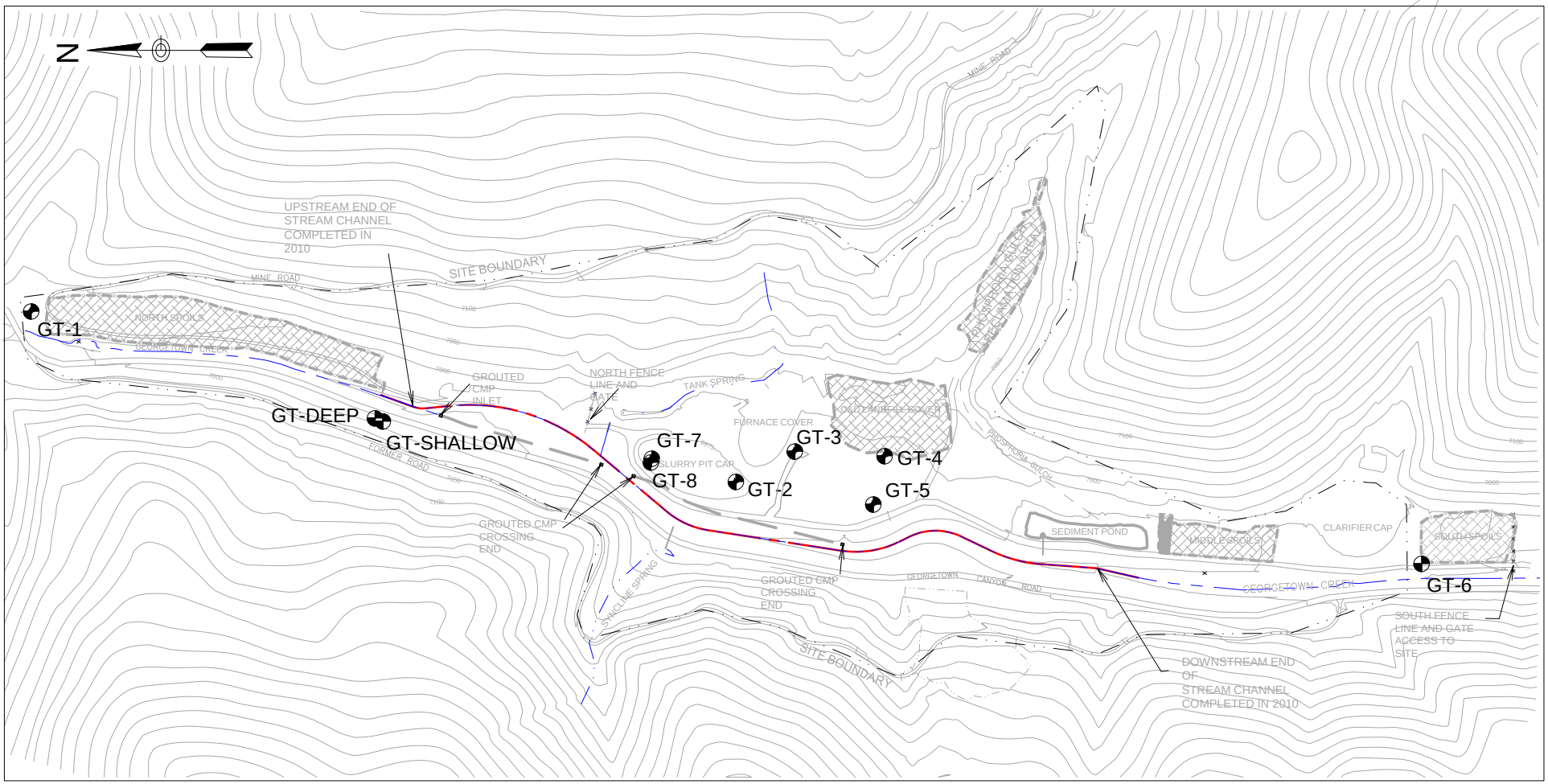
| Task Name | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | | 2016 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | H1 | H2 | H1 | H2 | H1 | H2 | H1 | H2 | H1 | H2 | H1 |
| 2015 3rd Q Site Inspection O&M Monitoring | | | | | | | | | | 9/7 9/7 | |
| 2015 2nd Round Surface Water Monitoring | | | | | | | | | | 10/5 10/5 | |
| 2015 2nd Round Surface Water Sampling | | | | | | | | | | 10/6 10/6 | |
| 2015 2nd Round Ground Water Sampling | | | | | | | | | | 10/7 10/8 | |
| 2015 4th Q Site Inspection O&M Monitoring | | | | | | | | | | 10/9 10/9 | |
| | | | | | | | | | | | |
| IDEQ 5-year Evaluation of Annual Reporting and Monitoring | | | | | | | | | | 12/21 | 2/19 |
| IDEQ Decision on Changes in Analytical or Monitoring Frequency | | | | | | | | | | | 2/19 |

Project: 5 year post closure o&m inspe
Date: Thu 7/21/11

| | | | | | |
|---|---|---|---|---|---|
| Task | | Rolled Up Task | | External Tasks | |
| Progress | | Rolled Up Milestone | | Project Summary | |
| Milestone | | Rolled Up Progress | | Group By Summary | |
| Summary | | Split | | Deadline | |



FIGURE 1




## KEY

GT-1

MONITOR WELL LOCATION AND DESIGNATION

## MAP SCALE

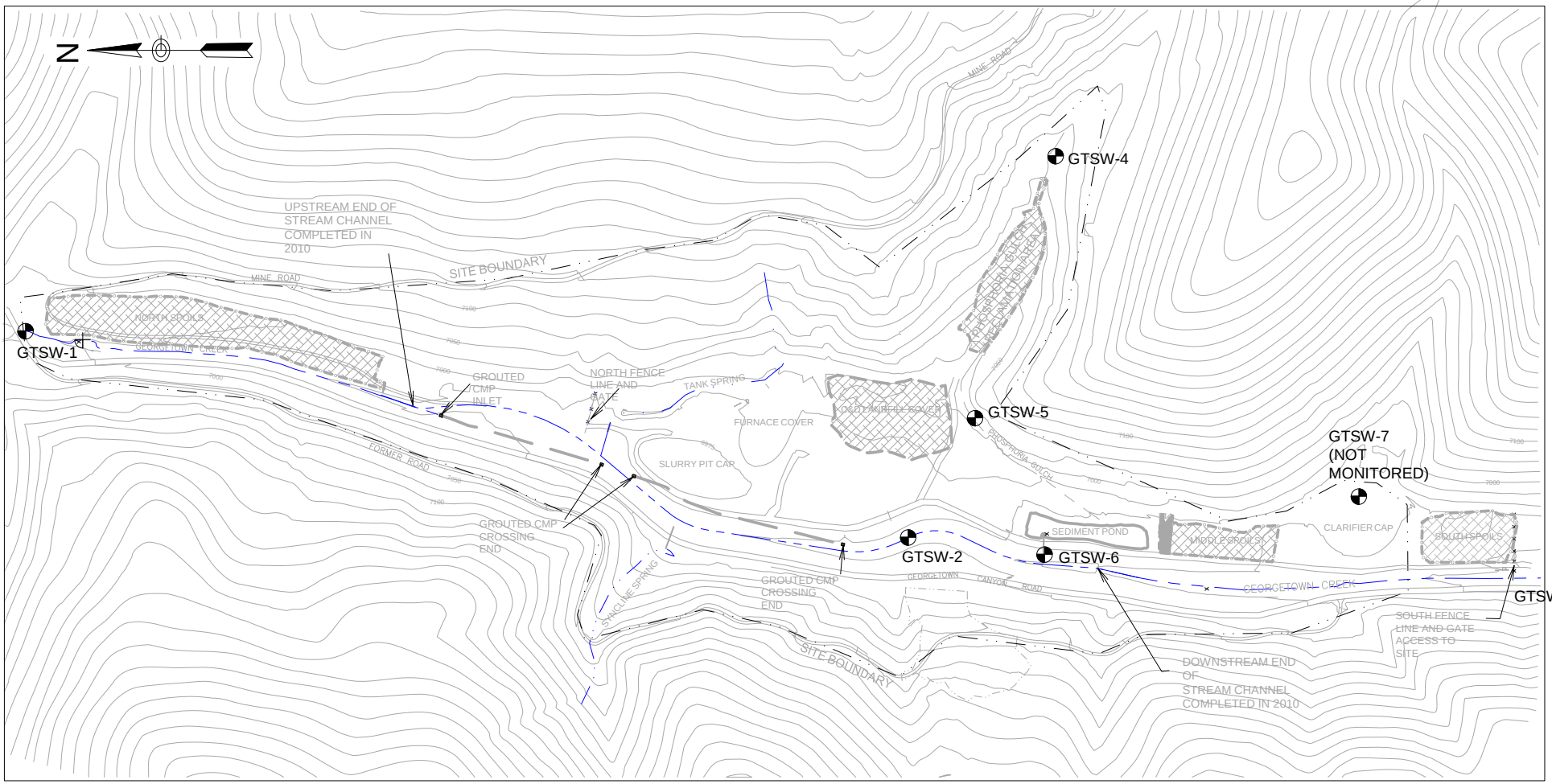
0 200 400 800

CONTOUR INTERVAL = 25 FEET

RECORD OF SURVEY, AGRIUM U.S. INC., SEC 25, T10S., R.44 E.B.M., HARPER-LEAVITT ENGINEERS, INC, JAN 13, 2003

SURVEY DATUM OF SITE REMEDY - Surveyor Scherbel, LTD, PLS Idaho and Summit Land Surveying (Matt Baker PLS of Idaho) 2009 and 2010 surveys.

| | | | | |
|---|---|---|---|---|
| | ANNUAL MONITORING REPORT | | | |
| | TITLE MONITOR WELL LOCATION MAP CENTRAL FARMERS FERTILIZER FACILITY | | | |
| JULY 20, 2011 | SIZE B | CAGE CODE | DWG NO | REV |
| DRAWN BY J.S. BROWN, P.G. | SCALE | NU-WEST MINING AND NU-WEST INDUSTRIES, INC. | SHEET FIGURE 2 | |




## KEY

**GTSW-1**

DESIGNATION AND LOCATION OF SURFACE WATER MONITORING LOCATION

## MAP SCALE

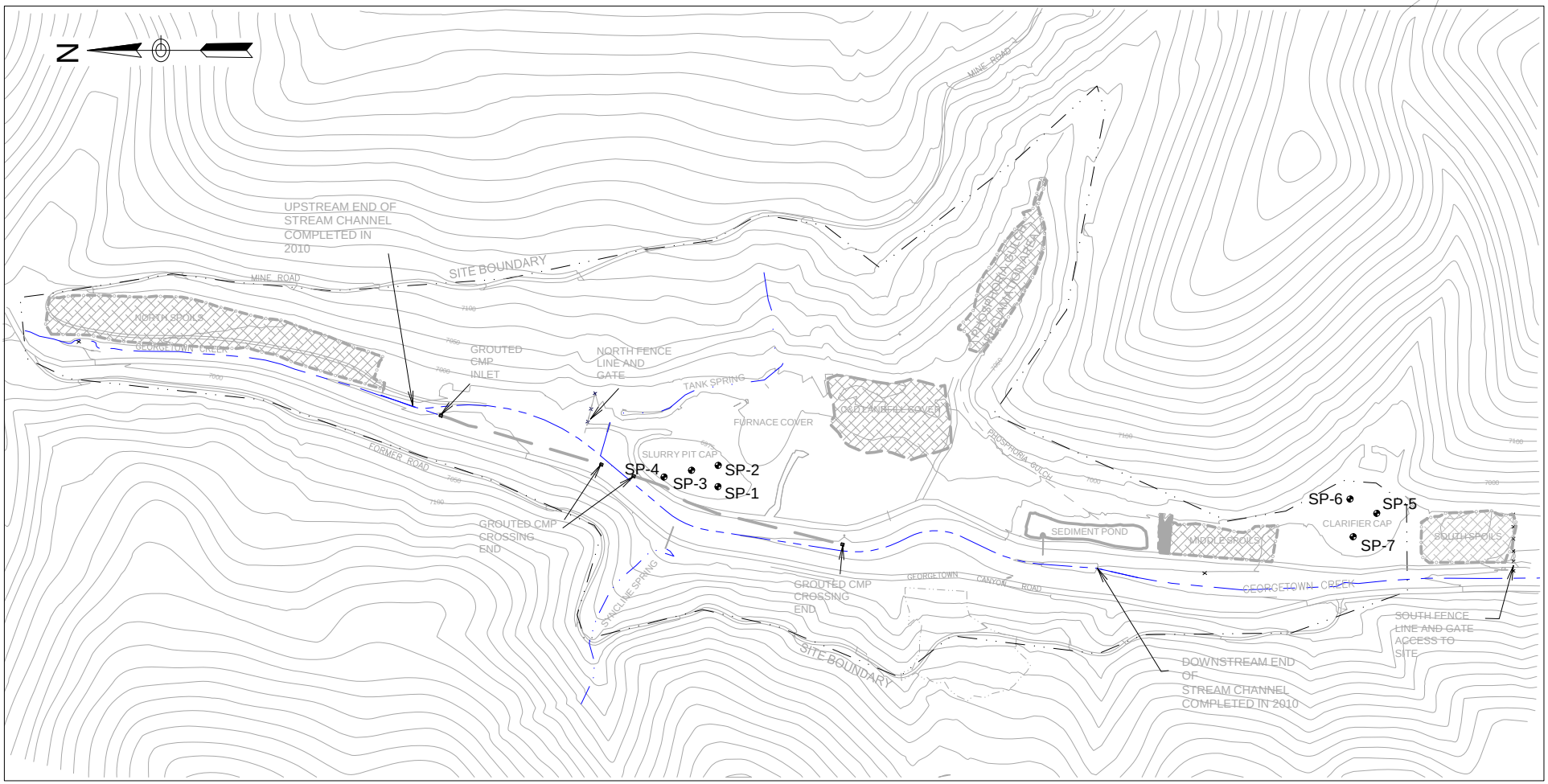
0 200 400 800

CONTOUR INTERVAL = 25 FEET

RECORD OF SURVEY, AGRIUM U.S. INC., SEC 25, T10S., R.44 E.B.M., HARPER-LEAVITT ENGINEERS, INC, JAN 13, 2003

SURVEY DATUM OF SITE REMEDY - Surveyor Scherbel, LTD, PLS Idaho and Summit Land Surveying (Matt Baker PLS of Idaho) 2009 and 2010 surveys.

| | | | | |
|---|---|---|---|---|
| | ANNUAL MONITORING REPORT | | | |
| | TITLE: SURFACE WATER SAMPLE LOCATIONS | | | |
| JULY 20, 2011 | SIZE B | CAGE CODE | DWG NO | REV |
| DRAWN BY J.S. BROWN, P.G. | SCALE | NU-WEST MINING AND NU-WEST INDUSTRIES, INC. | SHEET | FIGURE 3 |




## KEY

**SP-1** PERMANENT SURVEY MONUMENT LOCATION AND MONUMENT DESIGNATION

## MAP SCALE

0 200 400 800

CONTOUR INTERVAL = 25 FEET

RECORD OF SURVEY, AGRIUM U.S. INC., SEC 25, T10S., R.44 E.B.M., HARPER-LEAVITT ENGINEERS, INC, JAN 13, 2003

SURVEY DATUM OF SITE REMEDY - Surveyor Scherbel, LTD, PLS Idaho and Summit Land Surveying (Matt Baker PLS of Idaho) 2009 and 2010 surveys.

| | | | | |
|---|---|---|---|---|
| GLOBAL ENVIRONMENTAL TECHNOLOGIES L.L.C. | ANNUAL MONITORING REPORT | | | |
| | LOCATIONS OF PERMANENT SETTLEMENT MONUMENTS | | | |
| MARCH 1, 2011 | SIZE B | CAGE CODE | DWG NO | REV |
| DRAWN BY J.S. BROWN, P.G. | SCALE | NU-WEST MINING AND NU-WEST INDUSTRIES, INC. | SHEET | FIGURE 4 |

## CENTRAL FARMERS FERTILIZER FACILITY
## POST-CLOSURE INSPECTION CHECKLIST

| | | | |
|---|---|---|---|
| Date and Time of Inspection: | | Name (s) of Inspector (s) | |
| Weather Conditions: Temp: _____Precipitation? _Y_☐_N_☐ | | Sky Conditions: Clear ☐__Partly Cloudy ☐_Cloudy_☐____ | |
| Date of Last Post-Closure Inspection: | | Reason for Last Inspection: | |

**A. GENERAL INSTRUCTIONS**

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX, must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross--referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, annotated site maps.
3. The site inspection is a walking inspection of the entire site (i.e., the caps, channel, side drainages, surface water runoff patterns, Phosphoria Gulch), including the Environmental Easement perimeter and sufficient site transects to be able to inspect the entire surface and all features specifically described in this checklist. Every monument, fence, gate, sign, monitoring well access, and settlement marker will be inspected.
4. A set of photographs is required to document noted problems. In addition, all anomalous features or new features are to be photographed. A photo log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field Notes in the site logbook, however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the IDEQ.

| **B. PREPARATION** (To be completed prior to site visit) | **YES** | **NO** | **EXPLANATION** |
|---|---|---|---|
| 1. Design/O&M basis documents reviewed. | | | |
| 2. Previous inspection reports reviewed. . | | | |
| 2a. Were anomalies or trends detected on previous inspections? | | | |
| 2b. Was maintenance performed? | | | |

**C. SITE INSEPCTION PREPARATION** - Assemble the following equipment, as needed, to conduct inspections:

a. Camera
b. Binoculars
c. Tape measure
d. Surveying equipment
e. Site logbook and forms and writing utensils
f. Keys to lock (key # 2001)
g. Site map copies for marking up to attach to report
h. Clipboard
i. Watch or cell phone with clock
j. Health and safety required equipment
k. Water, food, bug repellant, sunscreen, appropriate dress

| **D. SITE INSPECTION** (To be completed during inspection) | **YES** | **NO** | **EXPLANATION** |
|---|---|---|---|
| **1. Access roads, fences, gates and signs, CMP alignment.** | | | |
| a) Is there a break in the fence? | | | |
| b) Have any posts been damaged or their anchoring weakened? | | | |
| c) Is there evidence of erosion or digging beneath the fence? | | | |
| d) Does the gate show evidence of tampering or damage? | | | |
| e) Is there any evidence of human intrusion? | | | |

| | YES | NO | EXPLANATION |
|---|---|---|---|
| f) Is there any evidence of large animal intrusion? | | | |
| g) Have any signs been damaged or removed? (Number of signs replaced: _____) | | | |
| h) Are site access roads passable? | | | |
| i) On-site road culverts functioning as designed? Note: 5 culverts on site road plus one on USFS road | | | |
| j) Walked the CMP alignment as shown on site map and observed no surface settlements | | | |
| k) Other Problems? | | | |
| **2. South Spoils Area** | | | |
| a) Drainage from spoils contained? | | | |
| b) Evidence of silt or surface water flowing off-site? | | | |
| c) Silt berm in place east of creek? | | | |
| d) Water bar protecting south property boundary? | | | |
| e) Culvert functioning as designed? | | | |
| f) Vegetation becoming established? (note percent growth) | | | |
| g) Erosion on slopes? | | | |
| h) Any evidence of settlement? | | | |
| i) Other Problems? | | | |
| **3. Clarifier** | | | |
| a) Vegetation becoming established? (note percent growth) | | | |
| b) Erosion on slopes to creek? | | | |
| c) Evidence of surface water flowing offsite? | | | |
| d) Any evidence of settlement? | | | |
| e) Settlement monuments surveyed? (semiannual) | | | |
| f) Evidence of human disturbance? | | | |
| g) Evidence of deep-rooted plants or trees on cap? | | | |
| h) Evidence of animal burrowing? | | | |
| i) Evidence of erosion in drainage on south? | | | |
| j) Evidence of erosion in drainage on north? | | | |
| k) Rip rap in place in drainage? | | | |
| l) Monitor well GT-6 accessible? | | | |
| m) Other Problems? | | | |
| **4. Middle Spoils** | | | |
| a) Vegetation becoming established? (note percent growth) | | | |
| b) Erosion on slopes? | | | |
| c) Silt berm east of creek in place along access road? | | | |
| d) Evidence of surface settlement or erosion around septic tank area? | | | |
| e) Evidence of surface water flowing off site? | | | |
| f) Other Problems? | | | |
| **5. Sediment Pond** | | | |
| a) Incoming flow from Phosphoria drainage unimpeded? | | | |
| b) Overflow functioning? | | | |
| c) Is debris guard clear? | | | |
| d) Vegetation becoming established east of pond? (note percent growth) | | | |
| e) Culvert working as designed? | | | |
| f) Riprap in chute spillway in place? | | | |
| g) Evidence of settlement or cracking on berm? | | | |
| h) Evidence of leakage through berm? | | | |
| i) Surface water runoff from access road to Phosphoria reporting to pond? | | | |

| | YES | NO | EXPLANATION |
|---|---|---|---|
| j) Road on berm in good condition and functioning as designed? | | | |
| k) Pond sediment level greater than 1 foot below overflow? | | | |
| l) Other Problems? | | | |
| **6. C&D Landfill** | | | |
| a) Vegetation becoming established? (note percent growth) | | | |
| b) Erosion on slopes? | | | |
| c) Any evidence of settlement? | | | |
| d) Any concrete or other materials showing through cover? | | | |
| e) Evidence of animal burrowing? | | | |
| f) Evidence of human disturbance? | | | |
| g) Culvert west of landfill draining to creek channel as designed? | | | |
| h) Monitor Well GT-4 and GT-5 accessible? | | | |
| i) Other Problems? | | | |
| **7. Phosphoria Gulch** | | | |
| a) Vegetation on slopes becoming established? (note percent growth) | | | |
| b) Erosion on slopes? | | | |
| c) Any evidence of slope cracking or shear? | | | |
| d) Bench slope break draining to Phosphoria? | | | |
| e) Water bar by ore cap diverting runoff into rip rap channel? | | | |
| f) Straw wattles in place and functioning as designed? | | | |
| g) Silt fences/silt berms in place and functioning as designed? | | | |
| h) Rip rap in place in Phosphoria creek bed? | | | |
| i) Evidence of human disturbance? | | | |
| j) Evidence of deep-rooted plants or trees on cap? | | | |
| k) Evidence of animal burrowing? | | | |
| l) Evidence of erosion on cap or disturbed armor? | | | |
| m) Water drainage away from cap? | | | |
| n) Slope wash onto ore cap? | | | |
| o) Other Problems? | | | |
| **8. Slurry Pit and Furnace Covers** | | | |
| a) Evidence of human disturbance? | | | |
| b) Evidence of deep-rooted plants or trees on slurry cap? | | | |
| c) Evidence of animal burrowing? | | | |
| d) Evidence of erosion on cap or disturbed armor? | | | |
| e) Water drainage away from caps? | | | |
| f) Any evidence of cap settlements, piping, or subsidence? | | | |
| g) Settlement monuments surveyed on slurry cap? | | | |
| h) Water draining north of furnace cover? | | | |
| i) Water draining between furnace and slurry covers? | | | |
| j) Vegetation on furnace slopes becoming established? (note percent growth) | | | |
| k) Erosion on furnace slopes? | | | |
| l) Rip rap spillways on furnace in good condition and functioning as designed? | | | |
| m) Any ponded surface water? | | | |
| n) Are willows or other trees encroaching on slurry pit cover? | | | |
| o) Monitor Wells GT-2, GT-3, GT-7, GT-8 conditions and access good? | | | |

| | YES | NO | EXPLANATION |
|---|---|---|---|
| p) Other Problems? | | | |
| | | | |
| **9. Tank Spring** | | | |
| a) Vegetation on slopes becoming established? (note percent growth) | | | |
| b) Erosion on slopes? | | | |
| c) Any evidence of slope cracking or sloughing? | | | |
| d) Water staying within rip rap channel? | | | |
| e) Culvert working as designed? | | | |
| f) Evidence of human disturbance or trespass? | | | |
| g) Rip rap in place in drainage? | | | |
| h) Tank Spring flowing to Georgetown Creek? | | | |
| i) Other Problems? | | | |
| **10. North Spoils Area** | | | |
| a) Vegetation becoming established? (note percent growth) | | | |
| b) Evidence of surface settlement? | | | |
| c) Erosion on slopes? | | | |
| d) Silt berm east of creek in place along access road? | | | |
| e) Silt fence in place south of spoils? | | | |
| f) Culvert working as designed draining road? | | | |
| g) Evidence of human disturbance? | | | |
| h) Is Well GT-1 condition good and well accessible? | | | |
| i) Water coming down drainage east of GT-1 draining to creek as designed? | | | |
| j) Other Problems? | | | |
| **11. Stream Channel** | | | |
| a) Vegetation on slopes becoming established? (note percent growth)? | | | |
| b) Evidence of fish or other aquatic life in bypass channel? | | | |
| c) Is channel clear of obstructions? | | | |
| d) Erosion on slopes? | | | |
| e) Any evidence of slope cracking or sloughing? | | | |
| f) Water staying within rip rap channel? | | | |
| g) Evidence of human disturbance affecting slopes or rip rap channel? | | | |
| h) Has peak flow affected benches or rip rap? | | | |
| i) Any erosion or other damage to weirs? | | | |
| j) Any evidence of flow subverting rip rap? | | | |
| k) Any disturbances to erosion control blankets on slopes? If so, approximate locations and areas in $ft^2$ | | | |
| Any disturbances to erosion control blankets on stream benches? If so, approximate locations [a]nd areas in $ft^2$ | | | |
| l) Culvert spillways functioning as designed? | | | |
| m) Are the CMP crossing outlets discharging water?<br>n) (If yes, estimate discharge) | | | |
| o) Are trees on bench viable and becoming established? (estimate percent viability) | | | |

| | YES | NO | EXPLANATION |
|---|---|---|---|
| p) Is water flowing through entire CMP bypass channel? If not, where does creek flow end? | | | |
| q) Other Problems? | | | |
| **12. Syncline Spring** | | | |
| a) Vegetation becoming established? (note percent growth) | | | |
| b) Water contained in inlet area? | | | |
| c) Any evidence of water losses? | | | |
| d) Water staying within rip rap channel? | | | |
| e) Culvert working as designed? | | | |
| f) Any leakage around culvert? | | | |
| g) Evidence of human disturbance? | | | |
| h) Rip rap in place in inlet area? | | | |
| i) Road surface over culvert in good condition? | | | |
| j) Spillway rip rap in good condition? | | | |
| k) Syncline Spring flowing to Georgetown Creek? | | | |
| l) Other Problems? | | | |
| **E. MONITOR WELLS** | | | |
| a) Has the monitoring well access been disturbed by man or natural processes? | | | |
| b) Does any natural process threaten the integrity of the monitoring well access? | | | |
| c) Is the monitoring well IDWR label plate intact and legible? | | | |
| d) Are the monitoring wells capped and properly secured and locked? | | | |
| e) Other Problems? | | | |
| **F. FIELD PHOTOS** | | | |
| a) Have photos been taken? How many and were problems noted during the site inspection photographically documented? | | | |
| **G. FIELD CONCLUSIONS** | | | |
| Is there an imminent hazard to the integrity of any of the caps? | | | |
| Is there an imminent problem with the integrity or functionality of site or USFS road culverts of any of the culverts? | | | |
| Are there any problems with the stream channel (i.e. blockages, vandalism to rip rap or weirs, severe channel erosion, etc.) | | | |
| Are more frequent inspections required? | | | |
| Are existing maintenance/repair actions satisfactory? | | | |
| Is other maintenance/repair necessary? | | | |
| Is overall site stability adequate? | | | |
| Rationale for field conclusions: | | | |

| **H. CERTIFICATION** | |
|---|---|
| I have conducted an inspection of the Central Farmers Fertilizer Facility in accordance with the procedures of DRAFT REMEDIAL ACTION COMPLETION PLAN OPERATION AND MAINTENANCE AND POST- CLOSURE CARE PLAN CENTRAL FARMERS FERTILIZER FACILITY IN GEORGETOWN CANYON, IDAHO NU-WEST INDUSTRIES, INC. and NU-WEST MINING, INC. as recorded on this checklist, attached sheets, field notes, photo logs, and photographs. | |
| Inspector's Signature: | Printed Name: |
| Title: | Date: |