Final Engineering Evaluation/Cost Analysis (EE/CA) Report for the Oak Grove Hydroelectric Project Water Conveyance Trestles

Prepared for Portland General Electric Company

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Prepared by

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Contents

Executive Summary **1**
1. Introduction **3**
2. Site Characteristics **5**
2.1 Site Location 5
2.2 Facility Type and Operations 5
2.3 Topography 5
2.4 Geology and Hydrogeology 6
2.5 Surrounding Land Use and Human Populations 6
2.6 Sensitive Ecosystems 6
2.7 Meteorology 7
2.8 Previous Removal Actions 7
3. Source, Nature, and Extent of Contamination **9**
3.1 Sources of Contamination 9
3.2 Nature and Extent of Contamination 9
3.2.1 Canyon Creek 10
3.2.1.1 Soil 10
3.2.1.2 Sediment 11
3.2.1.3 Surface Water and Groundwater 12
3.2.2 Pint Creek 12
3.2.2.1 Soil 12
3.2.2.3 Surface Water and Groundwater 14
3.2.3 Cripple Creek 14
3.2.3.1 Soil 14
3.2.3.2 Sediment 15
3.2.3.3 Surface Water and Groundwater 15
3.3 Analytical Data 15
3.4 Streamlined Risk Evaluation 16
3.5 Hot Spot Evaluation 17
4. Identification of Removal Action Objectives **19**
4.1 Removal Action Objectives 19
4.2 Statutory Limits on Removal Actions 19
4.3 Determination of Removal Action Scope of Work 19
4.4 Determination of Removal Action Schedule 20
4.5 Planned Removal Action Activities 21
5. Identification and Analysis of Removal Action Alternatives **23**
5.1 Technology Screening 23
5.2 Treatment Technology Screening 23
5.2.1 In-Situ Physical/Chemical Treatment 24
5.2.2 Ex-Situ Physical/Chemical Treatment 24
5.2.3 Containment 25
5.2.4 Off-Site Disposal 25

5.3 Retained Technologies 26
5.4 Removal Action Alternative Identification 26
5.4 Removal Action Analysis 26
5.4.1 Cost Estimation Approach 26
5.4.2 Alternative Analysis 27
6. Comparative Analysis of Removal Action Alternatives 33
6.1 Effectiveness 33
6.2 Implementability 34
6.3 Cost 34
7. Recommended Removal Action Alternative 35
References 37

Tables

1 Soil and Sediment Analytical Results – Canyon Creek Trestle
2 Soil Analytical Results for Leachable (TCLP) Metals – Canyon Creek Trestle
3 Trivalent and Hexavalent Chromium In Soil and Sediment – Canyon Creek Trestle
4 Soil Analytical Results for Polychlorinated Biphenyls (PCBs) – Canyon, Pint, and Cripple Creek Trestles
5 Soil and Sediment Analytical Results – Pint Creek Trestle
6 Surface Water Analytical Results – Pint Creek
7 Soil and Sediment Analytical Results – Cripple Creek Trestle
8 Surface Water Analytical Results –Cripple Creek
9 Federal ARARs
10 State ARARs
11 Removal Action Alternative Analysis
12 Alternative 1 –Cap-In-Place and Institutional Controls
13 Alternative 2 – Excavation and Off-Site Disposal

Figures

1 Trestles Site Vicinity
2 Soil and Sediment Sampling Locations – Canyon Creek
3 Soil and Sediment Sampling Locations – Pint Creek
4 Downstream Sediment and Water Sample Locations – Pint Creek
5 Soil and Sediment Sampling Locations – Cripple Creek
6 Removal Area – Canyon Creek
7 Removal Area – Pint Creek

Appendices

A. Updated Preliminary Risk Screening Technical Memorandum, May 25, 2012
B. Oak Grove Flowline Trestles Project Ecological Risk Screening, March 15, 2013 Letter to the Forest Service
C. Analytical Laboratory Reports for Canyon Creek Soil and Sediment
D. Laboratory Analytical Report for Pint Creek Soil, Sediment, and Surface Water
E. Laboratory Analytical Reports for Cripple Creek Soil and Sediment
F. Laboratory Analytical Report for Cripple Creek Surface Water

Executive Summary

Portland General Electric Company (PGE) has entered into an Administrative Settlement Agreement and Order on Consent (ASAOC) with the U.S. Department of Agriculture, Forest Service (Forest Service) to complete an Engineering Evaluation/Cost Analysis (EE/CA) under the U.S. Environmental Protection Agency's (EPA's) *Guidance on Conducting Non-Time-Critical Removal Actions Under Comprehensive Environmental Response, Compensation and Liability Act* (Office of Solid Waste and Emergency Response [OSWER] Publication 9360.0-32) (EPA, 1993) for the Oak Grove Hydroelectric Project Water Conveyance Trestles (Trestles). PGE retained Bridgewater Group, Inc. to prepare the EE/CA.

The Trestles are located on U.S. Forest Service (Forest Service) land. The Forest Service has assumed the lead Agency role under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and has determined that a Non-Time-Critical Removal Action under CERCLA is appropriate. The Non-Time-Critical Removal Action process places emphasis on conducting an EE/CA.

The Oak Grove Hydroelectric Project (Project) is located approximately 22 miles southeast of Estacada in Clackamas County, Oregon. The 6.4-mile-long water conveyance pipeline (pipeline) conveys water that is diverted from Lake Harriet, north to the Oak Grove Hydroelectric Powerhouse (Powerhouse) for the generation of electricity. Trestles are present across surface water bodies to support the pipeline. The Trestles are at three different locations along the pipeline between Lake Harriet and the Powerhouse at the following locations: Cripple, Pint and Canyon Creeks.

A site investigation (SI) was performed between 2008 and 2013 to assess the nature and extent of metals in soils at the Trestles. The results indicate that arsenic, chromium, and lead are present in soils beneath the Trestles. Trace levels of other metals are present in soils, but were not detected above ecological or human health screening values.

The SI delineated the extent of contamination. Arsenic, chromium, and lead concentrations were highest directly beneath the Trestles. Constituent concentrations decreased with distance laterally away from the Trestles. The investigation results indicate that contamination at the Trestles is limited to surface or near-surface soils. While metals are present in soils near Canyon, Cripple, and Pint Creeks, they were not detected in sediment or water samples collected from the creeks.

A streamlined risk assessment, conducted as part of the SI, noted that arsenic, chromium, and lead concentrations exceed ecological and human health screening levels at some locations at the Trestles. However, the risk assessment concluded that the concentrations pose a low risk to all ecological receptors and that a large-scale soil removal driven by ecological screening values would result in a loss of habitat.

Therefore, the Forest Service concluded that the EE/CA streamlined risk evaluation should be based on human health exposure scenarios. PGE has concluded that an "excavation worker" scenario, which includes direct contact with and possible ingestion of soil, is the most appropriate given current and reasonably likely future exposure scenarios to the soil at the Trestles.

Application of the Oregon Department of Environmental Quality's (DEQ) risk-based concentrations (RBCs) for the excavation worker scenario screens out arsenic and chromium because the detected concentrations at the Trestles do not exceed the 370 mg/kg RBC for arsenic and the 460,000 mg/kg RBC for chromium. However, lead concentrations exceed the DEQ RBC of 800 mg/kg in soils at Canyon and Pint Creek Trestles and require remediation.

Remedial actions potentially applicable to lead, the primary risk driver in soils, were identified and screened. The retained technologies include containment and off-site disposal. These were combined to create three remedial action alternatives for detailed evaluation in the EE/CA:

- Alternative 1 – Capping soil in-place and institutional controls
- Alternative 2 – Excavation and Disposal in Off-Site Landfill
- Alternative 3 – No action

Alternative 1 relies on in-place containment and long-term management to achieve the removal action objectives. Alternative 2 includes the removal of designated impacted soils and off-site disposal in a subtitle D permitted landfill. Under Alternative 3, no future actions would be taken to remove or contain impacted soils; this alternative serves as a baseline for evaluation purposes.

Based on the detailed evaluation of the effectiveness, implementability and cost of each alternative and the comparative evaluation of all three alternatives, Alternative 2, Excavation and Off-site Disposal of Soils, is the preferred alternative.

1.Introduction

PGE has entered into an ASAOC with the Forest Service to complete an EE/CA under the EPA's *Guidance on Conducting Non-Time-Critical Removal Actions Under Comprehensive Environmental Response, Compensation and Liability Act* (Office of Solid Waste and Emergency Response [OSWER] Publication 9360.0-32) (EPA, 1993) for the Trestles. PGE retained the Bridgewater Group, Inc. (Bridgewater) to prepare the EE/CA.

The Trestles are located on Forest Service land. The Forest Service has assumed the lead Agency role under CERCLA and has determined that a Non-Time-Critical Removal Action (NTCRA) under CERCLA is necessary. The NTCRA process places emphasis on conducting an EE/CA.

The Project is located approximately 22 miles southeast of Estacada in Clackamas County, Oregon. Figure 1 shows the project location. The 6.4-mile-long water conveyance pipeline (pipeline) conveys water that is diverted from Lake Harriet, north to the Powerhouse for the generation of electricity. Support Trestles are present at three different locations along the pipeline between Lake Harriet and the Powerhouse at the following locations: Cripple, Pint and Canyon Creeks. An EE/CA is necessary to address impacted soils at the Trestles sites near Canyon and Pint Creeks.

2. Site Characteristics

This section provides a description of the Trestles and related background information including: site location; facility type and operation; topography and site geology/hydrogeology; surrounding land use; sensitive ecosystems; meteorology; and previous removal actions conducted at the Facility.

2.1 Site Location

The Powerhouse is located approximately 22 miles southeast of Estacada in Clackamas County, Oregon (see Figure 1). The 6.4-mile-long pipeline conveys water that is diverted from Lake Harriet, north to the Powerhouse for the generation of electricity. Trestles are present across surface water bodies to support the pipeline. The Trestles are at three different locations along the pipeline between Lake Harriet and the Powerhouse at the following approximate locations:

Trestle	Section Township Range	Latitude, Longitude	Elevation (feet, mean sea level)
Cripple Creek	S22 T5S R6E	45° 6' 57", 122° 03' 28"	1,640
Pint Creek	S35 T5S R6E	45° 05' 22", 122° 01' 58"	1,910
Canyon Creek	S31 T5S R7E	45° 05' 14", 121° 59' 47"	1,960

2.2 Facility Type and Operations

The Cripple Creek Trestle supports a pipeline span of approximately 192 feet. The Pint Creek Trestle is approximately 92 feet wide, while the Canyon Creek Trestle is approximately 163 feet wide.

The pipeline has been in operation since approximately 1924, when the Powerhouse was constructed. Paint was applied to the Cripple Creek, Pint Creek, and Canyon Creek Trestles during construction 89 years ago. Records indicate that these Trestles were grit blasted in 1968, 1970, and 1971, respectively, during repainting. Soil containing possible hazardous materials (e.g., paint chips, blast grit) was observed during the mobilization process for repainting the Canyon Creek Trestle in 2008.

2.3 Topography

The Trestles are located on steep hillsides approximately 400-500 feet above tributaries of the Clackamas River. The topography surrounding each Trestle is steep and densely

wooded (with the exception of the cleared pipeline right-of-way). Canyon Creek, Cripple Creek, and Pint Creek flow at the base of each of the Trestles. Each creek has a riparian zone typical of tributaries of the Clackamas River.

Figures 2, 3, and 5 illustrate the elevations changes and topography in the vicinity of the Trestles.

2.4 Geology and Hydrogeology

The near-surface geology at the Trestles generally consists of gravelly silt with cobbles and boulders and silty, gravelly, sand with cobbles and boulders. Geologic materials closer to the creek at each individual trestle are predominately coarser-grained cobbles and boulders with a small percentage of fines (i.e., primarily a rock-supported matrix). The amount of fines increases in the cobbles and boulders, becoming more of a soil-supported matrix, with distance from the creeks and up the slopes of the ravines.

Cripple Creek flows all year. Canyon Creek flows above ground during the winter and spring and underground in the vicinity of the trestle during the summer and fall. Pint Creek flows year round with seasonal fluctuations. The creeks are characterized as high energy due to the steep topography and gradient. The creeks have little to no potential for supporting fisheries.

The depth to groundwater is not known. Groundwater sampling was not performed. Groundwater was not encountered in any of the hand borings completed during SI activities in 2008 and 2011.

2.5 Surrounding Land Use and Human Populations

The Trestles are located within Forest Service land. The area around the Trestles is densely forested with no residences within several miles. The nearest human population is the historic Three Lynx town site, which provides housing for PGE employees who operate and maintain the Project including the Trestles. The Three Lynx town site is more than two miles away from the closest Trestle site. According to the Forest Service, the Trestles' areas have no recreational value. However, during SI activities in 2008 and 2011 and the EE/CA process, campfire rings were observed near all of Trestles. PGE has not observed campers at any of the campfire rings and therefore concludes that they are used very infrequently during the summer months (June through September). The only known potential human receptors are PGE workers that perform bi-weekly inspections of the pipeline and possible infrequent campers. The PGE inspectors walk on designated walkways along the Trestles and typically do not come in contact with soils beneath the Trestles.

2.6 Sensitive Ecosystems

Sensitive ecosystems were evaluated and discussed in the May 25, 2012, *Updated Preliminary Risk Screening Technical Memorandum* and March 15, 2013, letter to the

Forest Service regarding *Oak Grove Flowline Trestles Project Ecological Risk Screening*. These documents are provided as Appendices A and B, respectively.

2.7 Meteorology

The Trestles are approximately 1,500-2000 feet above mean sea level. According to information at www.worldclimate.com/cgi-bin/grid.pl?gr=n45w122, the average monthly minimum temperature at Three Lynx Townsite, near the Trestles, ranges from 30.6 (January) to 50.4 (August) degrees Fahrenheit. The average monthly maximum temperature ranges from 41.5 (January) to 78.3 (August) degrees Fahrenheit. According to PGE, the average annual rainfall is approximately 65 inches, with several inches to several feet of snowfall in the winter months. Snow generally covers the ground until April or May and typically returns in November.

2.8 Previous Removal Actions

No previous removal actions have been performed.

3. Source, Nature, and Extent of Contamination

3.1 Sources of Contamination

Sandblasting operations are the presumed source of metals in soils under the Trestles. A close inspection of the soils directly beneath the Trestles indicated the presence of sandblast grit. Furthermore, PGE has previous communications between PGE and the DEQ authorizing the deposition of the sandblast grit to the soils under the condition that PGE protect the streams.

3.2 Nature and Extent of Contamination

PGE investigated soil, water, and sediment at the Trestles. A summary of the SI results and EE/CA sampling is provided in the following sections of this report. The *Site Investigation Report for the Oak Grove Hydroelectric Project Maintenance Facility* (Bridgewater Group, 2009) provides a more detailed description of the field sampling activities and the laboratory analytical results. Analytical data used in the EE/CA are discussed above and presented in Tables 1 through 8. Laboratory analytical reports are provided in Appendixes C through F. Additional detail regarding the SI is presented in the *Site Investigation Report for the Oak Grove Hydroelectric Project Maintenance Facility* (Bridgewater Group, 2012).

As was discussed in the *Site Investigation Report for the Oak Grove Hydroelectric Project Water Conveyance Trestles* (Bridgewater Group, 2012), the nature and extent of contamination in the Trestles was characterized using a phased investigation. The initial phase of the investigation focused on determining whether hazardous substances were present, and subsequent phases focused on defining the lateral and vertical extent of contamination. Five phases of work were performed during the SI, including one phase of soil sampling during the EE/CA. The EE/CA-phase of the investigation focused on refining the removal areas. Background concentrations for metals in soil in Oregon were used to direct the extent of soil sampling during the first four phases of the SI (DEQ, 2013). With the Forest Service's approval, the DEQ's RBCs for an excavation worker exposure scenario were used to direct additional soil sampling and analyses as part of the EE/CA process in 2013.

Figures 2, 3 and 5 show soil and water sample locations at the Trestles. Tables 1 through 8 present the laboratory analytical results for all of the SI samples.

3.2.1 Canyon Creek

3.2.1.1 Soil

Soil sampling at the Canyon Creek Trestle was conducted in all four phases of the SI beginning in July 2008 and completed in September 2011. The final EE/CA-phase sampling was performed in September 2013 to refine the extent of the removal action area to be remediated based on the extent of exceedances of the DEQ excavation worker RBCs. Laboratory analytical results are presented in Tables 1 through 4. Figure 2 shows sample locations for all phases of sampling. Laboratory analytical reports are attached as Appendix C.

During the SI EE/CA work, PGE collected and analyzed a total of 246 soil samples from 109 locations for Resource Conservation and Recovery Act (RCRA) metals beneath and near the Canyon Creek Trestle. Sampling continued until background concentrations were reached both laterally and vertically near the Trestle. Sample locations are shown in Figure 2. Locations where concentrations exceed naturally-occurring background concentrations and the DEQ RBCs are color-coded accordingly.

The sample locations were established using a 25-foot grid. Soil samples were generally collected at 6-inch depth intervals. Sample depths ranged from near surface to approximately three feet below ground surface (bgs). Initially, all of the soil samples were analyzed for RCRA metals[1] using EPA Method 6010/7000 series. Soil samples collected during later phases of the SI were analyzed for only arsenic, chromium, and lead because these metals were the only metals detected above applicable naturally-occurring background concentrations.

The results of the sampling indicated that the following metals were detected in soils: arsenic, cadmium, chromium, lead, and silver. Arsenic concentrations ranged from non-detect (<2.69 mg/kg) to 61.7 mg/kg. Cadmium detections ranged from non-detect (<0.489 mg/kg) to 25.2 mg/kg. Chromium concentrations ranged from 4.28 mg/kg to 1,400 mg/kg. Lead concentrations ranged from 3.45 milligrams per kilogram (mg/kg) to 3,470 mg/kg. Silver concentrations ranged from non-detect (<2.64 mg/kg) to 6.22 mg/kg.

Barium, mercury, and selenium were not detected above laboratory method reporting limits (MRLs) or were detected at concentrations at or below naturally-occurring background concentrations at all locations (see Table 1).

The highest arsenic, cadmium, chromium, lead, and silver concentrations were detected in soils immediately below the Trestle. Arsenic, cadmium, chromium, and silver concentrations do not exceed DEQ's excavation worker RBCs at any Canyon Creek soil sample locations (see Table 1). Lead concentrations exceed the DEQ's excavation worker RBC at approximately 16 locations (see Table 1).

[1] All results are for total metals, unless specified.

Concentrations of all metals generally decreased with depth and distance from the trestle.

PGE analyzed sample Location 11B for leachable lead using EPA Method 1311, Toxicity Characteristic Leaching Procedure (TCLP) to determine if leachable lead was present in the soils near the banks of the stream that could result in surface water impacts and if the soil might be considered hazardous waste if it was excavated and removed. Sample 11B had the highest lead concentration detected at the Canyon Creek Trestle during all phases of the SI. Leachable lead was detected at a concentration of 1.22 milligrams per liter (mg/L) (see Table 2); this low concentration does not suggest a high degree of leachability for lead and is less than the toxicity characteristic concentration of 5 mg/L for hazardous waste.

To further evaluate chromium impacts and potential risks, PGE selected and analyzed three Canyon Creek soil samples for hexavalent chromium (chromium VI), which is a known human carcinogen. The results of the analysis show that the chromium present in soils at the Canyon Creek Trestle is approximately 1 percent hexavalent chromium (chromium VI), and therefore deducing that approximately 99 percent is trivalent chromium (chromium III). Results of the chromium speciation are provided in Table 3. Table 1 shows the total chromium concentration detected in each sample and screens these concentrations against the RBC for chromium III for an excavation worker exposure scenario.

On March 20, 2012, PGE requested that Apex Laboratory analyze one archived Canyon Creek soil sample, CYN-110831-11-B, for polychlorinated biphenyls (PCBs). PGE selected this sample because it had elevated arsenic, chromium, and lead concentrations, which were presumed to be from historical sandblasting activities. PCBs were not detected above the MRL. While this sample was analyzed beyond the recommended holding time, the results were deemed to be adequate for screening purposes. If PCBs were present now, or at the time of sample collection, they would have been detected in the archived sample because PCBs do not readily break down in the environment. The results are summarized in Table 4.

3.2.1.2 Sediment

Canyon Creek sediment samples were collected from three locations in July 2008 and September 2011. Laboratory analytical results are presented in Tables 1 and 3. Figure 2 shows the sample locations for total arsenic, total lead and total chromium detections. Laboratory analytical reports are provided in Appendix C. One sample (-88S) was collected upstream of the trestle and two samples (-89S and -34S) were collected downstream of the trestle. Field staff selected sediment sample locations based on flows and gradients. Sediment samples were collected from depositional areas on the sides of channels where sediment had accumulated. These areas tended to be in the back eddies of pools or inside of bends.

Concentrations of arsenic, lead, and chromium at locations 34S are below the naturally-occurring background concentrations. Concentrations of lead and chromium at location

88S were also below naturally-occurring background concentrations. The concentrations of lead and chromium at location 89S, immediately downstream of the trestle, were detected at 39.9 mg/kg and 99.6 mg/kg, respectively, which are slightly above the naturally-occurring background concentrations of 17 mg/kg and 86 mg/kg, respectively. Location 88s and 89s sediment samples were not analyzed for arsenic.

3.2.1.3 Surface Water and Groundwater

Surface water and groundwater samples were not collected at the Canyon Creek Trestle. Groundwater was not encountered in the soil sample locations. Surface water samples were not collected because the results of TCLP analysis and sediment sampling did not suggest appreciable leaching of arsenic, chromium, or lead or erosion of soils from the banks of the creek that could result in surface water impacts.

3.2.2 Pint Creek

3.2.2.1 Soil

Soil sampling at the Pint Creek Trestle was conducted in third and fourth phases of SI starting in September 2011 and completed in October 2011. A final EE/CA phase sampling was performed in September 2013 to refine the extent of the area to be remediated based on the DEQ Excavation Worker RBC. Laboratory analytical results are presented in Tables 4 and 5. Figure 3 shows sample locations. Laboratory analytical reports are provided in Appendix D. During the two SI and EE/CA phases of work, PGE collected and analyzed 214 soil samples from 78 locations for RCRA metals beneath and near the Pint Creek Trestle.

Initial analyses included arsenic, cadmium, chromium, lead, and silver. Cadmium and silver were not evaluated in the follow-up phases of the SI because they were not detected above naturally-occurring background levels used as screening levels during the initial phase of the SI. All soil samples were analyzed for metals using EPA Method 6010/7000 series. Sampling continued until background concentrations were reached both laterally and vertically. Sample locations are shown in Figure 3.

Pint Creek soil sample locations were established by laying out a 25-foot grid. Samples were collected at 0.5-foot depth intervals between the ground surface and 3.0 feet bgs.

Results of the third phase of SI sampling indicated that cadmium and silver were not detected above the laboratory MRLs, chromium was detected at the naturally-occurring background concentration, but arsenic and lead were present in surface and near-surface soils at concentrations above the naturally-occurring background concentrations. Arsenic detections were generally less than the laboratory MRLs, except in the immediate vicinity of the trestle. Arsenic was detected above laboratory MRLs in only four samples at three locations. Where detected, arsenic concentrations ranged from 11.6 mg/kg to 17.6 mg/kg, which are above the default naturally-occurring background concentration of 11 mg/kg. Lead detections ranged from 4.41 mg/kg to 1,370 mg/kg. Lead concentrations in surface soils near the trestle were generally above the naturally-

occurring background concentration of 17 mg/kg. Within 50 feet of the trestle, the concentrations are generally consistent with naturally-occurring background concentrations.

On March 20, 2012, PGE requested that Apex Laboratory analyze three archived Pint Creek soil samples, PNT-110901-04-A, PNT-110901-28-A, and PNT-110901-05-A, for PCBs. PGE selected samples that had elevated arsenic, chromium, or lead which were presumed to be from historical sandblasting operations. PCBs were not detected above the MRL. While these samples were analyzed beyond the recommended holding time, the results were deemed to be adequate for screening purposes. If PCBs were present now, or at the time of sample collection, they would have been detected in the archived samples because PCBs do not readily break down in the environment. The PCB laboratory data report is provided at the end of Appendix D.

3.2.2.2 Sediment

PGE collected four sediment samples from Pint Creek on September 7, 2011. Sediment samples, PNT-110907-45S, -46S, -47S, and -48S were collected upstream of the trestle, beneath the trestle, and downstream of the trestle as shown on Figure 3. The results are summarized in Table 5. Laboratory analytical reports are included in Appendix D. Field staff selected sample locations based on flows and gradients. Sediment samples were collected from depositional areas on the sides of channels where sediment had accumulated (e.g., in back eddies of pools or insides of bends). The samples were analyzed for arsenic, cadmium, chromium, lead, and silver using EPA method 6010/7000 series.

Arsenic, cadmium, and silver were not detected in sediment samples PNT-110907-45S, -46S, -47S, and -48S above the laboratory MRLs. Chromium detections ranged from 18.8 mg/kg to 39.6 mg/kg which are below naturally-occurring background concentration in soils. Lead detections range from 4.41 mg/kg to 12.3 mg/kg, also below the naturally-occurring background concentration.

On May 16, 2012, PGE collected two additional sediment samples, PNT-120516-58S and -59S, approximately 300 feet downstream from the Trestle in a narrow area that was identified by PGE biologists as a lower gradient, low energy area of the creek. Sample -58S was collected from the upper end of the low energy area. The sample was extracted from a point bar of an island that formed in a bend in the creek. Sample location -59S was collected approximately 100 feet downstream from sample -58S. Additional details regarding the assessment of Pint Creek performed by the PGE biologists are provided in the *Updated Preliminary Risk Screening and Proposed Screening Values Technical Memorandum* (see Appendix A).

These sediment samples were analyzed for only arsenic, chromium, and lead because these were the only metals detected above the naturally-occurring background concentrations in soils near the Trestle. Arsenic, chromium, and lead were detected at concentrations similar to naturally-occurring background concentrations. Figure 4 shows the approximate location of the downstream sediment sample.

3.2.2.3 Surface Water and Groundwater

On May 16, 2012, PGE collected one surface water sample approximately 300 feet downstream from the trestle near sediment sample location -58S, in an area that was identified by PGE biologists as a low energy area.

The sample was very clear with no visible turbidity. The water sample was analyzed for arsenic, chromium, and lead as these are the only metals detected above the MRLs or naturally-occurring background concentrations. Arsenic and lead were not detected above the MRL. Chromium was detected below the MRL but above the method detection limit (MDL) at 1.22 mg/L and is therefore qualified by the laboratory as an estimated value. The chromium MDL is 1 mg/L and the MRL is 2 mg/L.

The surface water sample results are summarized in Table 6. The laboratory analytical report is provided in Appendix D. Figure 4 shows the approximate sample location.

Groundwater samples were not collected at Pint Creek. Groundwater was not encountered in the soil sample pits.

3.2.3 Cripple Creek

3.2.3.1 Soil

Soil sampling at the Cripple Creek Trestle was conducted in third and fourth phases of SI beginning in September 2011. During the two SI and one EE/CA phases of work, PGE collected and analyzed 200 soil samples from 60 locations for analysis of metals beneath and near the Cripple Creek Trestle. Initial analyses included arsenic, cadmium, chromium, lead, and silver. Cadmium and silver were not evaluated in the follow-up phases of SI because they were not detected above naturally-occurring background levels in the initial phase. Samples were analyzed using EPA Method 6010/7000 series. Sampling continued until background concentrations were reached both laterally and vertically in soils. Sample locations are shown in Figure 5. Laboratory analytical results are presented in Table 7. Laboratory analytical reports are provided in Appendix E.

Cripple Creek soil sample locations were established by laying out a 50-foot grid. Samples were collected at 0.5-foot depth intervals between the ground surface and 2.5 feet bgs. Arsenic detections were generally less than the laboratory MRLs, except in the immediate vicinity of the trestle. Specifically, arsenic was detected above the laboratory MRL at eight locations, with detections ranging from 14.3 mg/kg to 23.3 mg/kg; these concentrations are above the default naturally-occurring background concentration of 11 mg/kg. Lead detections ranged from 8.6 mg/kg to 571 mg/kg. Lead concentrations in surface soils near the Cripple Creek Trestle are above the naturally-occurring background concentration of 17 mg/kg. Chromium concentrations ranged from 10.9 mg/kg to 67 mg/kg, well within the range of naturally-occurring background concentrations, while cadmium and silver were not detected above the MRL. Figure 5 shows the sample locations and lead and chromium detections.

On March 20, 2012, PGE requested that Apex Laboratory analyze two archived Cripple Creek soil samples, CRP-110908-31-A and CRP-110912-06-A, for PCBs. PGE selected samples that had elevated arsenic, chromium, or lead which were presumed to be from historical sandblasting operations. PCBs were not detected above the MRL. While these samples were analyzed beyond the recommended holding time, the results were deemed to be adequate for screening purposes. If PCBs were present now, or at the time of sample collection, they would have been detected in the archived samples because PCBs do not readily break down in the environment. PCB results are summarized in Table 4. The laboratory data report is provided at the end Appendix E.

3.2.3.2 Sediment

PGE collected five sediment samples from Cripple Creek in September 2011. Sediment samples CRP-110912-45S, -46S, -47S, -48S, and -49S were collected upstream of the Trestle, beneath the Trestle, and downstream of the Trestle, respectively. Field staff selected sediment sample locations based on stream flows and gradients. Sediment samples were collected from depositional areas on sides of channels where sediment had accumulated (e.g., back eddies of pools or insides of bends). Sediment sample locations are shown on Figure 5. Sediment results are presented in Table 7. Sediment sample locations are marked with an “S.” Laboratory analytical reports are provided in Appendix E.

The samples were analyzed for arsenic, cadmium, chromium, lead, and silver. Arsenic, cadmium, and silver were not detected above laboratory MRLs. Lead detections ranged from 2.24 mg/kg to 4.24 mg/kg, which are well below the naturally-occurring background concentration. Chromium detections ranged from 5.41 mg/kg to 11.6 mg/kg, also well below the naturally-occurring background concentration.

3.2.3.3 Surface Water and Groundwater

Surface water samples were collected upstream and downstream of the Trestle in September 2011. The upstream sample represents natural stream conditions well above the Trestle location. The downstream sample was collected immediately downstream of the Trestle. The surface water samples were collected during a rain event in which runoff was observed entering Cripple Creek from the area near and below the Trestle. Surface water samples were analyzed for chromium and lead. Chromium and lead were not detected above their respective MRLs in either the upstream or the downstream samples. Table 8 presents the sample results. The analytical data reports are provided in Appendix F.

Groundwater samples were not collected at Cripple Creek. Groundwater was not encountered in the sample pits.

3.3 Analytical Data

Analytical data used in the EE/CA are discussed above and presented in Tables 1 through 8. Laboratory analytical reports are provided in Appendixes C through F.

Additional details regarding the SI are presented in the 2009 and 2012 SI Reports for the Oak Grove Hydroelectric Project Maintenance Facility (Bridgewater Group, 2009 and 2012).

3.4 Streamlined Risk Evaluation

As stated in the *Guidance on Conducting Non-Time-Critical Removal Action Under CERCLA* (EPA, 1993), where standards for one or more constituents in a given medium (e.g. soil) are clearly exceeded, a removal action is generally warranted, and further quantitative assessment that considers all chemicals, their potential additive effects, or additive or multiple exposure pathways are generally not necessary.

PGE performed a streamlined risk evaluation during the SI to assist the Forest Service in assessing if the metals present at the Trestles pose a potential exposure risk to human or ecological receptors. The risk evaluation was provided as Appendix E of the March 2012 SI Report. At the request of the Forest Service, the risk evaluation was amended in a March 15, 2013, letter in which PGE provided Upper Confidence Levels (UCLs) for constituents of concern in soil. PGE compared the UCLs to the EPA Ecological Soil Screening Levels (Eco-SSL) found at http://www.epa.gov/ecotox/ecossl/ and the DEQ's 2001 Level II ecological screening level values (SLVs) for terrestrial receptors found at http://www.deq.state.or.us/lq/cu/ecorisks.htm. PGE also screened the SI results against the DEQ's 2012 RBCs for human health exposures to soils found at http://www.deq.state.or.us/lq/pubs/docs/RBDMTable.pdf.

The streamlined risk assessment concluded that the risk to ecological receptors was low and that a human health exposure scenario and associated RBCs were most appropriate for the Trestles. In addition to the risk to ecological receptors being low, selection of the ecological screening values as cleanup levels would potentially result in the loss of ecological habitat and likely more impact to the forest lands, assuming the soil was to be removed, allowing the metals concentrations to naturally attenuate.

Reasonably likely current and future exposure scenarios for humans are a function of current and reasonably likely future land uses at the Trestles. The nearest residence is over two miles from the Trestles. Human activities in the vicinity of the Trestles are extremely infrequent. Groundwater is not used by humans and is not believed to be impacted based on the SI results. Arsenic, chromium, and lead are not volatile and there are no buildings near the Trestles for vapor intrusion. In addition, the arsenic, chromium, and lead species present in soils are not highly leachable. As a result, residential exposures, volatilization to outdoor air; vapor intrusion into buildings; and leaching to groundwater exposure pathways are not relevant. Lastly, recreational use of the creeks in the vicinity of the Trestles is limited to two to three months per year. Canyon, Cripple, and Pint Creeks near the Trestles do not contain and are not used for commercial, recreational, or subsistence fishing. Occupational workers do not typically come into contact with soils beneath the Trestles, unless they are performing maintenance-related work. The Trestles are inspected bi-weekly by PGE staff, but they are typically on the walkways along the pipeline and do not contact the soil. PGE

performs vegetation management and brush removal along the pipeline right-of-way every few years. Therefore, the only expected potential exposure scenarios for humans are limited to infrequent recreational users camping near the Trestles and maintenance workers potentially contacting and ingesting soil that has been impacted with arsenic, chromium, or lead. Because of the low frequency of exposure to soils by infrequent recreational users and maintenance workers, the DEQ's Excavation Worker exposure scenario (e.g., exposure to contaminated soil for only nine days per year) was selected as the appropriate exposure scenario for the Trestles.

Figures 2, 3, and 5 show the locations where arsenic, chromium, and lead concentrations exceed their respective screening levels and, therefore, have the potential to pose a risk to human receptors. It is important to note that the screening levels used in the streamlined risk assessment are highly conservative.

3.5 Hot Spot Evaluation

The Oregon Environmental Cleanup Act (Oregon Revised Statute [ORS] 465.200, et. seq.) is an applicable or relevant and appropriate regulation (ARAR) for the EE/CA. The Oregon Environmental Cleanup Act (ORS 465.315) and the Oregon Hazardous Substance Remedial Action Rules (Oregon Administrative Rule, Chapter 340, Division 122) require that certain actions be taken for "hot spots" of contamination as described in the DEQ's *Final Guidance for Identification of Hot Spots* (DEQ, 1998a) and *Final Pre-Calculated Hot Spot Look-Up Tables* (DEQ, 1998b). These actions include the identification of hot spots and treatment of hot spots, to the extent feasible. If a baseline risk assessment indicates that constituent concentrations have a potential to pose an unacceptable risk, the Oregon Environmental Cleanup Act administrative rules require a determination of areas that constitute hot spots of contamination. For media other than water (i.e., soils), the hot spot determination includes consideration of whether a hot spot is "highly concentrated," "highly mobile," or "not readily containable." The assessment of "highly concentrated" is performed by comparing the concentration of each contaminant to its "highly concentrated" hot spot level which is based on a 100-fold multiplier of the acceptable risk level for carcinogens and a 10-fold multiplier of the acceptable risk level for non-carcinogens. For purposes of this hot spot evaluation, the acceptable human health risk level is assumed to be the direct contact or ingestion RBC for excavation workers. The streamlined risk evaluation concluded that ecological risk is low and therefore ecological SLVs are not relevant to a potential removal action). The assessment of "highly concentrated" soil hot spots for ecological receptors is required only in instances when the baseline risk at the facility exceeds the acceptable risk level for ecological receptors. Because the risk assessment concluded that there was no unacceptable ecological risk, an ecological hot spot evaluation was not performed.

Tables 1, 5, and 7 provide human-health, risk-based, "highly concentrated" hot spot levels. Based on a comparison of these hot spot levels with detected constituent

concentrations, none of the constituents detected exceed the “highly concentrated” hot spots concentrations.

“Highly mobile” hot spots are defined based on the potential for constituent transport or migration via infiltration or leaching to groundwater, stormwater runoff to surface water, or wind-blown deposition. The assessment of “highly mobile” hot spots is required only in instances when it is reasonably likely that significant migration routes exist at a site. The SI results indicate that the soils impacted with arsenic, chromium, and lead are not highly mobile. A leachability test performed on Canyon Creek soils, which contained the highest concentrations of arsenic, chromium, and lead, suggest a minimal ability for constituents to leach from soils to the dissolved phase. The lack of arsenic, chromium, and lead detections in sediment and water samples indicates that the metals in the impacted soils are not highly mobile. In addition, arsenic, chromium, or lead were not detected above the MRLs in most cases, or at concentrations that are well below the relevant screening values in sediment and water samples at all three trestles suggesting that the metals in the impacted soils are not highly mobile.

In conclusion, the concentrations and extent of the arsenic, chromium, and lead in soils do not meet the definition of a “hot spot.”

4. Identification of Removal Action Objectives

4.1 Removal Action Objectives

One removal action objective (RAO) was developed for the Trestles as follows:

1. Reduce constituent concentrations in soils or eliminate direct contact exposure to soils to levels that do not pose an unacceptable dermal contact, ingestion, or inhalation risk to excavation workers.

4.2 Statutory Limits on Removal Actions

This is a PGE-funded removal action and therefore, no statutory limits are applicable.

4.3 Determination of Removal Action Scope of Work

To achieve the RAO, the scope for the removal action alternatives evaluation will focus on surface and near-surface soils containing arsenic, chromium, and lead concentrations that exceed the DEQ's RBCs for an excavation worker. Based on the results of the SI and streamlined risk evaluation, lead concentrations in surface soils determine the scope of work for the removal action at the Canyon Creek and Pint Creek Trestles because it is the only metal that exceeded its RBC. Soils at the Cripple Creek Trestle do not contain hazardous substances in concentrations exceeding the relevant RBCs. Therefore, a removal action is not required at the Cripple Creek Trestle.

The removal action will focus on surface and near-surface soils where lead exceeds its RBC. The removal action areas are shown below.

Location	Square Feet	Acres
Canyon Creek	1,697	0.04
Pint Creek	1,905	0.04

EPA's EE/CA guidance states that appropriate federal or state ARARs should be identified as part of defining the scope of work for the removal action. EPA (1988) discusses the general procedure for the identification of potential ARARs for a site. Table 9 summarizes the federal ARARs identified by following this procedure. Table 10 summarizes state ARARs.

Of the potential federal ARARs presented in Table 9, the key federal ARARs include the Hazardous Materials Transportation Act and RCRA. The Forest Service has determined, on the basis of the review of PGE's streamlined risk assessment, that the

Endangered Species Act (ESA) and the Migratory Bird Act were factored into the selection of the relevant screening value for the removal action. These Acts are considered ARARs for the removal action, but none of the removal action alternatives are likely to result in a take, import, export, possession, purchase, sale or barter of any ESAs or migratory birds.

Of the potential state ARARs presented in Table 10, the key state ARARs include the statutes and administrative rules under the Oregon Environmental Cleanup Act, Oregon Solid Waste Management law (OAR 459), Oregon Occupational Safety and Health Code (OAR 347 and 437), and the DEQ's hot spot guidance. These statutes, rules and guidance establish requirements for the investigation, cleanup, and management of impacted soils like those present at the Trestles, and for the protection of workers who would implement a removal action. The Oregon Hazardous Waste Management Act is not considered to be a key ARAR because the soils that may be removed from the Trestles are not likely to be a hazardous waste based on testing performed during the SI.

PGE evaluated Canyon, Pint, and Cripple Creek Trestle sites in 2002 for Threatened, Endangered and Sensitive (TES) plants along the pipeline corridor as part of relicensing surveys (PGE 2003). No sensitive species were found near any of the three trestle sites, except for a tall bugbane (*Cimicifuga elata*) population located more than 500 feet upstream of the Cripple Creek Trestle, which is not in a proposed removal action area, and PGE is actively monitoring the population.

In early 2013, PGE obtained and reviewed a Forest Service Natural Resource Information System (NRIS) dataset of known sensitive botanical species and surveyed and managed botanical species locations within PGE's Project Boundary (which includes the Trestles). The NRIS dataset shows no known species locations at the Trestles.

Lastly, in April 2011, a PGE biologist visited the sites to flag ordinary high water marks for the creeks. During the same visit, the biologist evaluated the Trestles for known TESs. No sensitive species were observed.

Consequently, TES requirements for plant species are not considered a key ARAR on the basis of Trestle site surveys and database search results.

4.4 Determination of Removal Action Schedule

The removal action schedule is driven by weather conditions and equipment availability. The steep terrain near the Trestles requires that the removal action be implemented when the soils are driest which is during the summer months. The area receives an approximately 65 inches of rain per year. Conducting the removal action when soils are wet or saturated will create unsafe working conditions. Because the removal action areas will need to be re-vegetated, the work needs to be completed so that vegetation re-established can be reestablished before the winter months.

For these reasons, the removal action is scheduled for late July through September 2014. The removal action is anticipated to take approximately five to six weeks from mobilization to de-mobilization.

4.5 Planned Removal Action Activities

The planned removal action alternatives include the containment or excavation of surface and near-surface soils containing lead concentrations above the DEQ excavation worker RBC. The removal action areas are shown on Figures 6 and 7.

If excavation is the selected alternative, 0.5 to 1 foot of surface soils will be removed followed by verification sampling. If detected concentrations in the remaining soil exceed the RBC, an additional 0.5-foot of soil will be removed to achieve the RAOs, as needed. Removal of more than 1 foot of soil may be infeasible for the following reasons: Soil will need to be removed using manual labor and hand tools because of the remote locations of the Trestles, and; large rocks or bedrock may be encountered below one foot. Further discussion of planned removal action activities is provided in the next section where each removal action alternative is described and analyzed.

5. Identification and Analysis of Removal Action Alternatives

5.1 Technology Screening

The EPA's EE/CA guidance states that a limited number of alternatives appropriate for addressing the RAOs should be identified and assessed based on the analysis of the nature and extent of contamination. The guidance further states that only the "most qualified" technologies that apply to the media or source should be discussed in the EE/CA, and that the use of presumptive remedy guidance can, in many cases, provide an immediate focus to the discussion or selection of alternatives. Presumptive remedies involve the use of remedial technologies that have been selected in the past at a similar site or for similar contaminants.

Lead is the primary risk driver for defining the lateral extent of the removal action areas and soil is the only medium of concern. The identified technologies and alternatives should be the most qualified technologies for the removal of lead in soils.

5.2 Treatment Technology Screening

According to the Federal Remediation Technologies Roundtable (FRTR) Remediation Technologies Screening Matrix and Reference Guide 4.0 at http://www.frtr.gov/matrix2/top_page.html, potential treatment technologies for metals in soils include in-situ or ex-situ physical or chemical treatment, containment, and on-site or off-site disposal.

The FRTR Treatment Technologies Screening Matrix indicates that both in-situ and ex-situ biodegradation of metals in soil would not meet the EE/CA definition of a "most qualified" technology due to its developmental status, and relative overall cost and performance for metals. For this reason, biodegradation was screened out as a treatment technology.

Further, the FRTR Treatment Technologies Screening Matrix indicates that in-situ and ex-situ thermal treatment for metals in soil would not meet the EE/CA definition of a "most qualified" technology due to its relative overall cost and performance in treating inorganic constituents. The unit cost for incineration is typically much higher than the cost for land disposal. Based on information at http://www.frtr.gov/matrix2/section4/4-13.html, incineration could cost from $500 to $800 per ton for a small site. For this reason, incineration was also screened out as a treatment technology.

A discussion of the most relevant treatment technologies follows.

5.2.1 In-Situ Physical/Chemical Treatment

Physical/chemical treatment uses the physical properties of the contaminants or the contaminated medium to destroy (i.e., chemically convert), separate, or contain the contamination. Soil flushing uses the contaminant's solubility in liquid to physically separate it from the soil. Surfactants may be added to the flushing solution to chemically increase the solubility of a contaminant. Solidification/stabilization also uses both physical and chemical means. Solidification encapsulates the contaminant, while stabilization physically alters or binds with the contaminant.

Physical/chemical treatment is typically cost effective and can be completed in short time periods. Equipment is readily available and is not engineering or energy-intensive. Treatment residuals from separation techniques will require treatment or disposal, which will add to the total project costs and may require permits. Extraction fluids from soil flushing will increase the mobility of the contaminants, so provisions must be made for subsurface recovery.

Chemical treatment is not favorable for soils with high organics, which are present in the Trestles' soils. Plus, the ability to mobilize and construct the necessary treatment system equipment and recovery system at the remote Trestles sites make this alternative uncompetitive when compared with the other alternatives. Therefore, this technology is not carried forward.

Stabilization/solidification technologies are less sensitive to soil parameters than other physical/chemical treatment technologies. However, the site conditions, including steep embankments and the absence of suitable areas to install the stabilization equipment, make this technology less favorable than other available technologies. Consequently, this technology is not carried forward.

5.2.2 Ex-Situ Physical/Chemical Treatment

According to FRTR Treatment Technologies Screening Matrix, the main advantage of ex-situ physical/chemical treatment is that it generally requires shorter time periods than in-situ treatment, and there is more certainty about the uniformity of treatment because of the ability to homogenize, screen, and continuously mix the soil. Ex-situ treatment, however, requires excavation of soils, leading to increased costs and engineering for equipment, material handling, and potential excavation worker exposure conditions.

Physical/chemical treatment uses the physical properties of the contaminants or the contaminated medium to destroy (i.e., chemically convert), separate, or immobilize the contamination. Chemical reduction/oxidation and dehalogenation (APEG, BCD or glycolate) are destruction technologies. Soil washing, soil vapor extraction (SVE), and solvent extraction are separation techniques, and solidification/stabilization (S/S) is an immobilization technique.

Physical/chemical treatment is typically cost effective and can be completed in short time periods (in comparison with biological treatment). Equipment is readily available and is not engineering- or energy-intensive. Treatment residuals from separation techniques

will require treatment or disposal, which will add to the total cost of the project and may require permits.

Available ex-situ physical/chemical treatment technologies for metals in soil include chemical extraction, chemical reduction/oxidation, separation, soil washing followed by precipitation, and S/S. Ex-situ physical/chemical treatment projects for soil have been successful; however, contaminant concentrations and soil volumes are typically much higher than the Trestles project. Further, the lack of a suitable and accessible work area will require transport of excavated soils to another location where treatment can be implemented. This makes this option less feasible and more costly than other available technologies. Consequently, this technology is not carried forward.

5.2.3 Containment

Containment is often performed to prevent, or significantly reduce, the migration of contaminants in soils. In general, containment is performed when extensive subsurface contamination at a site precludes excavation and removal of contaminated material because of potential hazards, unrealistic cost, or lack of adequate treatment technologies.

Containment technologies can be installed quickly and are typically low to moderate in cost. Unlike ex-situ treatment technologies, containment does not require excavation of soils and the increased costs associated with design, equipment, possible permitting, and material handling, unless consolidation of materials into an engineered landfill is needed. However, containment requires ongoing management, possibly including fencing, signage, or easements, and periodic inspections for settlement, ponding of liquids, erosion, and naturally-occurring deep-rooted vegetation. Even with these long-term requirements, containment is usually more economical than excavation and removal of the contaminated material.

Excavation and containment in a constructed on-site landfill was not considered, because it is not cost effective compared to other alternatives. Once excavated, the cost for disposal at an off-site landfill would be significantly less than the construction and long-term operations and maintenance costs associated with a landfill constructed on the sites. Therefore, containment in a landfill constructed on the sites was not further considered.

As a result, a cap-in-place containment treatment option is the only option considered. Capping has been implemented extensively with proven success.

5.2.4 Off-Site Disposal

Other treatment technologies for soil include excavation, retrieval, and off-site disposal. Off-site disposal requires excavation which can add to the construction costs relative to containment, but lower the costs relative to chemical or physical treatment, and it will not require ongoing management. Off-site disposal of lower-concentration, metal-contaminated soils can be less expensive when compared to treatment options and can

provide the most definitive removal of contaminants from a site. Off-site disposal is retained as a treatment technology.

5.3 Retained Technologies

Based on CERCLA cleanup guidance and the technology screening presented above, the following technologies were retained for use in developing removal action alternatives:

1. Containment by capping soils in-place to reduce human exposures to soils containing lead above the human-health, risk-based, screening value (DEQ excavation worker RBC). This technology will also require institutional controls to ensure long-term reliability.
2. Off-site land disposal of soils containing lead above the human-health, risk-based, screening value (DEQ excavation worker RBC).

5.4 Removal Action Alternative Identification

The retained technologies were combined to create three removal action alternatives for detailed evaluation in the EE/CA:

- Alternative 1 – Capping Soil In-Place and Institutional Controls
- Alternative 2 – Excavation and Disposal in Off-Site Landfill
- Alternative 3 – No Action

These alternatives include an alternative that relies on a combination of containment and management (e.g., institutional controls or ICs) to achieve the RAOs (Alternative 1), and an alternative that relies solely on removal to achieve the RAOs (Alternative 2). Alternative 1 was created because of the potential limitations of removing soil from the remote, steep, rocky hillsides at the Trestles sites. The third alternative (Alternative 3) is a no action alternative; no future actions would be taken to remove or contain impacted soils, or to modify surface water runoff to the creeks from the adjacent hillsides.

5.4 Removal Action Analysis

The following subsections describe each alternative. The detailed analysis of each alternative is also provided in Table 11. Consistent with EE/CA guidance, each alternative is evaluated with respect to its effectiveness, implementability and cost. The next section provides a comparative analysis of Alternatives 1, 2, and 3.

5.4.1 Cost Estimation Approach

The approach used for estimating costs is based on the identification of specific line item costs and the estimation of unit costs for each line item. Base unit costs were determined using the following information. The preferred source was budget quotes

from vendors and service providers. The second source was published cost-estimating guides (e.g., Means Site Work and Landscape Cost Data [Means]) (Means, 2013). The final source was Bridgewater's and PGE's site remediation experience.

A 20 percent allowance factor was applied to unit costs obtained from published cost-estimating guides to account for indirect construction costs such as health and safety, bonding and insurance, contractor profit, engineering design, services during construction, mobilization, and demobilization.

A 20 percent contingency was applied to the total capital and O&M cost components to account for variable and unforeseeable elements of cost within the assumed remediation scope. Final costs will depend on actual labor and material costs, competitive market conditions, actual site conditions, detailed design factors, work productivity, regulatory or policy changes, and other variable factors.

Net Present Value (NPV) costs were calculated using a 7 percent net discount rate for future costs based on EPA guidance (EPA, 2000) for developing and documenting feasibility study cost estimates. All future costs are represented as present values in the "Cost Summary" tables for each site. For purposes of this report, present value is "as of" 2013. The estimated costs for multiyear activities were prorated on an equal annual basis. The discount rate is the difference between the interest rate and the projected inflation rate.

The estimated costs for Alternatives 1 and 2 are presented in Tables 12 and 13 respectively. A cost estimate was not developed for Alternative 3 because it does not include any future actions. Each table includes three-pages. The first page is a "Cost Summary" that presents the NPV capital cost, long-term operations and maintenance (O&M) cost, and the total cost of the alternative. The second page is an "Estimated Detailed Cost" that presents the quantity, units, extended unit cost, allowance, and total cost for each line-item. Finally, the third page is a "Future Cost Summary" that presents the expected year when capital and O&M costs will be incurred for purposes of estimating the NPV cost.

5.4.2 Alternative Analysis

The alternatives are discussed generally in this section. The alternatives are screened in Table 11.

Alternative 1, Capping soil in-place and Institutional Controls

Alternative 1 would involve capping soils with lead concentrations that are greater than the DEQ RBC for an excavation worker of 800 mg/kg. At Canyon Creek Trestle, this would include the soils located near sampling locations 2, 4, 5, 7, 10, 11, 21, and 78. At Pint Creek Trestle, this would include the soils located near sampling locations 3 through 6, 28, 29, and 59. Capping soil at Cripple Creek Trestle is not required because metals concentrations did not exceed the DEQ RBCs.

The cap would be constructed with a minimum of 12 inches of clean, imported, top soil that would be graded and seeded with an approved grass seed mix to prevent erosion. The following approximate areas and soil volumes would be required at each location for the soil cap:

Location	Cap Area (sq ft.)	Cubic Yards Required for Soil Cap	Tons
Canyon Creek	1,697	63	88
Pint Creek	1,905	71	100
Cripple Creek	0	0	0

Before capping, the removal action areas would need to be cleared, including the removal of large vegetation and trees, to the extent possible with hand tools. In addition, soil berms or other erosion control measures would be constructed to collect stormwater runoff, should it rain during the removal action.

Because lead concentrations in soils in the removal action areas will remain above human-health screening levels, Alternative 1 would involve placing a soil cap over the entire removal action areas. The soil cap would be a minimum of 12 inches thick. The cap material would be placed by conveying it down the hillside or blowing it into place and then manually shoveling and raking it to meet the required thickness. The soil would be brought into the Trestle areas using an ATV trailer, loaded into buckets, and placed on a conveyor. If a vacuum truck can access the areas, the top soil may be blown into place. It is assumed that the cap would require annual inspections and periodic repair (every 5 years) as part of operations and maintenance (O&M) for Alternative 1. Also, institutional controls in the form of a Forest Service Land Status Record Notation would need to be implemented.

Finally, Alternative 1 would include re-vegetation of the removal action areas and implementation of temporary controls. Temporary erosion controls would include wattles or silt fences placed along the hillside and along the creeks, along the downhill boundaries of the upper and lower portions of the removal area, and as needed along the sides of the removal action areas to both stabilize the cap material and control erosion onto un-impacted areas or the into the creeks Re-vegetation would be conducted in accordance with Federal Energy Regulatory Commission (FERC) License No. 2195 Vegetation Management Plan (PGE 2006). Temporary controls would be maintained until vegetation has established.

All hand tools and reusable personal protective equipment (PPE) will be decontaminated at the removal action areas to prevent the tracking of contaminated soils into un-impacted portions of the hillsides. A temporary decontamination station will be established at the bottom or top of each hillside. Decontamination will be limited to PPE (e.g., boots, gloves) and sampling equipment. All vehicles and other equipment will

remain outside the exclusion zone and will not require decontamination. Noxious weed inspection of all construction equipment will be performed.

Decontamination materials (soil or water) will be collected, profiled, and disposed of at a facility permitted to accept the waste.

Table 11 presents the detailed evaluation of Alternative 1. The alternative is evaluated with respect to its effectiveness, implementability and cost.

The estimated cost for Alternative 1 at each Trestle is estimated below. A detailed cost for Alternative 1 at each Trestle is provided in Table 12.

Location	Capital Cost*	NPV O&M Cost*	Total Cost*
Canyon Creek	$280,600	$43,500	$324,100
Pint Creek	$179,400	$27,800	$207,200
Cripple Creek	0	0	0
Total	$460,000	$71,400	$531,400

*All estimates were rounded.

Alternative 2, Excavation and Off-Site Disposal

Alternative 2 consists of excavating surface and near-surface soils from the removal action areas shown in Figures 6 and 7 until lead concentrations are below the DEQ RBC of 800 mg/kg and transporting the material to an off-site, permitted, subtitle D, solid waste landfill. This alternative should not require institutional controls.

As with Alternative 1, the removal action areas would need to be cleared, to the extent possible. Excavation around large trees and root balls may be required. Also, before excavating the soil, soil berms, silt fences, or other erosion control measures will be constructed to collect stormwater runoff, should it rain during the removal action.

Excavation at the Trestles sites will be performed using manual labor and hand tools. The selected contractor will be required to remove a minimum of 56 cubic yards from Canyon Creek and 35 cubic yards from Pint Creek from the areas and depths specified in Figures 6 and 7. The excavation will proceed until lead concentrations are reduced to 800 mg/kg. All excavated soil exceeding 800 mg/kg will be removed from the Trestle areas, transported, and disposed of at a Subtitle D permitted solid waste landfill permitted to accept the waste. The selected contractor's methods and means will be specified in the Removal Action Work Plan that will be submitted to the USFS for approval prior to the commencement of construction.

After the contractor completes the excavations at the depths specified in Figures 6 and 7, soil samples will be collected to determine if lead concentrations in the remaining soil are below the DEQ RBC. PGE will use a verification sampling grid similar to that used in the SI. Samples will be located at approximately 25-foot centers.

All samples will be submitted to a laboratory and analyzed for lead. Field constraints may require minor modification to verification sample locations. If the lead concentrations in each sample are less than DEQ RBC, no further soil will be removed from an area. If a sample contains lead at a concentration greater than 800 mg/kg, then an additional 6 inches of soil will be removed from the area around the verification sample location. Additional soil removal will be followed by verification samples.

PGE will notify the USFS OSC if verification sample results exceed 800 mg/kg. PGE will proceed with the additional soil removal unless an extenuating circumstance requires PGE to deviate from the approved removal action work plan. If extenuating circumstance arises, the USFS and PGE will assess the results and develop a path forward.

Assuming a conversion factor of 1.5 tons per cubic yard (CY) for soils that are removed, the estimated quantity of soils containing lead concentrations equal to or greater than DEQ RBC is as follows:

Location	Tons
Canyon Creek	83
Pint Creek	53
Cripple Creek	0
Total tons	136

The removal action areas will not be backfilled unless it is required for the structural and geotechnical stability of the Trestles sites. Excavated soils would be directly loaded into 20-CY drop boxes and transported off-site to a subtitle D, permitted, solid waste landfill. Since all of the soil will be removed to levels below the DEQ RBC, no institutional controls will be required.

Alternative 2 would include re-vegetation of the removal action areas and implementation of temporary erosion controls. Temporary erosion controls would include wattles or silt fences placed along the hillside, along the downhill boundaries of the upper and lower portions of the removal area, and as needed along the sides of the removal action areas, to both stabilize the exposed soil and control erosion onto un-impacted areas. Re-vegetation would be conducted in accordance with Federal Energy Regulatory Commission (FERC) License No. 2195 Vegetation Management Plan (PGE 2006) to ensure selection of acceptable species of grasses, shrubs and trees. Temporary controls will be maintained until vegetation has reestablished.

Field equipment and reusable PPE will be decontaminated in the field to prevent the tracking of contaminated soils into un-impacted portions of the hillsides. A temporary decontamination station will be established at the bottom or top of each hillside. Decontamination will be limited to PPE (e.g. boots, gloves) and sampling equipment. All

vehicles and other equipment will remain outside of the removal area and will not require decontamination. Noxious weed inspection of all construction equipment will be performed.

Decontaminated water, if generated, will be collected, profiled, and disposed of at a facility permitted to accept such waste.

For cost estimating purposes, the estimated quantities of soil that will require removal are as follows:

Location	Cubic Yards	Tons
Canyon Creek	56	83
Pint Creek	35	53
Cripple Creek	0	0

Table 11 presents a detailed evaluation of Alternative 2 for each Trestle location. The alternative is evaluated with respect to its effectiveness, implementability and cost.

The estimated cost for Alternative 2 at each Trestle is summarized below. A detailed cost for Alternative 2 at each Trestle is provided in Table 13.

Location	Capital Cost*	NPV O&M Cost*	Total Cost*
Canyon Creek	$356,200	$0	$356,200
Pink Creek	$227,800	$0	$227,800
Cripple Creek	0	0	0
Total	$584,000	$0	$584,000

*All estimates were rounded.

Alternative 3, No Action

Alternative 3 would involve leaving the soils containing lead in place. Under Alternative 3, no actions would be taken to remove or contain the impacted soils.

Table 11 presents a detailed evaluation of Alternative 3. The alternative is evaluated with respect to its effectiveness, implementability and cost.

Because there are no actions associated with Alternative 3, there are no capital or O&M costs associated with the alternative.

6. Comparative Analysis of Removal Action Alternatives

Consistent with EE/CA guidance, each alternative is evaluated with respect to its effectiveness, implementability and cost.

6.1 Effectiveness

Alternative 3 would be the least effective of the three alternatives. It would not provide any additional protection of human health or the environment. It would not comply with ARARs. It may not be reliable over the long term due to the potential for erosion of lead-impacted soil down the hillsides and into the creeks. It would not provide for treatment and would not result in a reduction in toxicity, mobility or volume.

The effectiveness of Alternatives 1 and 2 is comparable with respect to the following:

- Protection of human health; they both would allow for excavation worker or recreational uses of the Trestles sites.
- Protection of workers, the community, and the environment during implementation.
- Compliance with ARARs, particularly CERCLA and Oregon Cleanup Rules requirements or preferences for treatment.

What differentiates the effectiveness of Alternatives 1 and 2 is the degree to which they would reduce risks to human receptors, their long-term reliability, their degree of treatment, and the reduction in toxicity, mobility and volume.

Alternative 2 would be the most effective alternative in reducing potential human risks by removing the soils containing the highest concentrations of lead. Alternative 1 would be less effective than Alternative 2, because capping of the removal action area materials may allow exposure to human and ecological receptors. While a soil cap would be effective in preventing exposure to most types of human and ecological receptors, burrowing animals and excavation workers could come into contact with residual concentrations of lead. Alternative 1 would be less effective than Alternative 2 because higher residual lead concentrations would be left in place and covered with only a soil cap.

Alternative 2 would be more effective in the degree of treatment because more impacted soil would be removed and placed in permitted off-site land disposal facilities. Alternative 1 would be less effective than Alternative 2 because it would only cap soils in-place and not provide an engineered containment (e.g. liner).

Finally, Alternative 2 would be the most effective in reducing toxicity, mobility and volume because impacted soils would be removed. Alternative 1 would be less effective than Alternative 2 because it would have less reduction in toxicity and volume, and would rely on capping to control mobility.

Based on the comparative analysis of the alternatives, Alternative 2 is the most effective alternative.

6.2 Implementability

All of the alternatives are comparable with respect to their administrative implementability.

What differentiates these alternatives is their technical implementability. Alternative 3 is the most technically implementable because there are no actions associated with the alternative. Alternative 1 is less technically implementable than Alternative 3 because it involves capping soil in-place with top soil or aggregate. Alternative 3 will require the least amount of labor, engineering and equipment. Alternative 2 is the least implementable; it will require more labor and equipment, but limited additional design and engineering to excavate the soils from the hillsides. Also, the extremely steep hillsides limit the types of equipment that can be used for excavation.

Thus, Alternative 3 is the most implementable alternative, followed by Alternative 1, and then Alternative 2.

6.3 Cost

As is indicated in Section 5.4.2, *Alternative Analysis*, Alternative 3 is the lowest cost alternative at $0. Alternative 1 is the next lowest cost, followed by Alternative 2 which is the highest cost. Alternative 1 is approximately $52,700 less than Alternative 2.

Consequently, Alternative 1 is the lowest cost alternative that satisfies the removal action objectives.

7. Recommended Removal Action Alternative

Based on the detailed evaluation of the effectiveness, implementability, and cost of each alternative and the comparative evaluation of all three alternatives, PGE recommends the selection of Alternative 2. While Alternative 2 is the highest cost alternative, the added cost is modest, it does not include long-term institution controls, and it is more effective in reducing PGE's long-term liability by permanently reducing lead concentrations through the removal of the impacted soil.

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Tables

TABLE 1 – Soil and Sediment Analytical Results - Canyon Creek Trestle

Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Human Health: Excavation Worker ==>	370. [1]	>Max [1]	4,300 [1]	460,000. [2]	800 [1]	2,600. [1]	5,100 [2a]	5,100 [2a]
Default Naturally-Occurring Background Level ==>	11 [5]	659	1 [5]	73.07 [5]	17 [5]	1.4 [4a]	43 [4a]	1. [5]
Hot Spot Concentraion-Human Health ==>	na	na	na	4,600,000	8,000	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Total Chromium	Lead	Mercury	Selenium	Silver
01	001	16-Jul-08	0.0 - 0.25	15.7	77.5	2.64 U	1,050.	288.	0.0826 U	2.64 U	2.64 U
	001B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	141.	47.1	*na*	*na*	*na*
	001C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	66.	*na*	*na*	*na*	*na*
02	002	16-Jul-08	0.0 - 0.25	58.6	248.	19.6	611.	**1,990.**	0.069 U	2.59 U	5.01
	002B	17-Oct-08	0.25 - 0.50	25.3 U	*na*	4.4	64.1	216.	*na*	*na*	3.03 U
	002C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	*na*	26.5	*na*	*na*	*na*
	02-C	30-Aug-11	1.0 - 1.50	*na*	*na*	*na*	67.4	37.3	*na*	*na*	*na*
	02-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	39.1	3.75	*na*	*na*	*na*
	02-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	30.3	3.93	*na*	*na*	*na*
03	003	16-Jul-08	0.0 - 0.25	4.49	59.6	2.66 U	46.5	155.	0.247 U	2.66 U	2.66 U
04	004	16-Jul-08	0.0 - 0.25	28.1	159.	14.7	666.	**1,550.**	0.093 U	2.51 U	3.23
	04-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	60.8	171.	*na*	*na*	*na*
	04-BD	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	57.8	120.	*na*	*na*	*na*
	04-C	26-Sep-11	1.0 - 1.50	*na*	*na*	*na*	24.8	18.2	*na*	*na*	*na*
	04-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	35.8	42.9	*na*	*na*	*na*
	04-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	38.1	98.1	*na*	*na*	*na*
	04-F	26-Sep-11	2.5 - 3.00	*na*	*na*	*na*	35.6	56.4	*na*	*na*	*na*
05	005	16-Jul-08	0.0 - 0.25	21.6	110.	7.1	777.	**958.**	0.0809 U	2.55 U	2.55 U
	05-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	61.7	161.	*na*	*na*	*na*
	05-C	30-Aug-11	1.0 - 1.50	*na*	*na*	*na*	37.5	37.6	*na*	*na*	*na*
06	006	16-Jul-08	0.0 - 0.25	11.1	162.	2.63 U	58.3	208.	0.0566	2.63 U	2.63 U
07	007	16-Jul-08	0.0 - 0.25	60.7	272.	25.2	370.	**2,850.**	0.0775 U	2.6 U	6.22
	007B	17-Oct-08	0.25 - 0.50	24.3 U	*na*	5.89	12.	18.5	*na*	*na*	2.91 U
	007C	17-Oct-08	0.5 - 0.75	*na*	*na*	3.46 U	*na*	*na*	*na*	*na*	*na*
	07C	26-Sep-11	1.0 - 1.50	*na*	*na*	na	6.45	3.06	*na*	*na*	*na*
	07-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	6.7	3.31	*na*	*na*	*na*
	07-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	6.65	6.43	*na*	*na*	*na*
08	008	16-Jul-08	0.0 - 0.25	24.	124.	2.64	725.	468.	0.0863 U	2.55 U	2.55 U
09	009	16-Jul-08	0.0 - 0.25	15.6	116.	2.62 U	439.	227.	0.0771 U	2.62 U	2.62 U
	09-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	64.4	106.	*na*	*na*	*na*
	9C	31-Aug-11	1.0 - 1.50				41.4	8.56			
10	010	16-Jul-08	0.0 - 0.25	8.2	40.8	2.44 U	1,400.	152.	0.0909 U	2.44 U	2.44 U
	010B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	151.	**1,280.**	*na*	*na*	*na*
	010C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	38.9	**1,690.**	*na*	*na*	*na*
	10-C	30-Aug-11	1.0 - 1.50	*na*	*na*	*na*	29.5	**1,940.**	*na*	*na*	*na*
	10-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	29.6	10.4	*na*	*na*	*na*
	10-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	22.3	9.95	*na*	*na*	*na*
11	011	16-Jul-08	0.0 - 0.25	11.3	96.	2.6 U	92.7	486.	0.0452 U	2.6 U	2.6 U
	11-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	71.8	**3,470.**	*na*	*na*	*na*
	11C	26-Sep-11	1.0 - 1.50	*na*	*na*	*na*	25.	112.	*na*	*na*	*na*
	11-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	28.2	99.7	*na*	*na*	*na*
	11-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	17.7	117.	*na*	*na*	*na*
	11-F	26-Sep-11	2.5 - 3.00	*na*	*na*	*na*	27.1	14.	*na*	*na*	*na*
12	012	16-Jul-08	0.0 - 0.25	48.5	293.	1.45	410.	424.	0.0842 U	2.85 U	0.964
	12-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	117.	158.	*na*	*na*	*na*
	12C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	40.	28.1	*na*	*na*	*na*
13	013	16-Jul-08	0.0 - 0.25	25.1	135.	0.493 U	1,210.	259.	0.0596 U	2.47 U	0.493 U
	013B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	31.9	9.71 U	*na*	*na*	*na*
14	014	16-Jul-08	0.0 - 0.25	61.7	231.	0.557 U	832.	213.	0.0807 U	2.79 U	0.852
	014B	17-Oct-08	0.25 - 0.50	25. U	*na*	*na*	117.	97.6	*na*	*na*	*na*
	014C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	48.8	*na*	*na*	*na*	*na*
15	015	16-Jul-08	0.0 - 0.25	20.5	169.	0.554 U	525.	195.	0.0668 U	2.77 U	0.599

TABLE 1 – Soil and Sediment Analytical Results - Canyon Creek Trestle

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Human Health: Excavation Worker ==>	370. [1]	>Max [1]	4,300 [1]	460,000. [2]	800 [1]	2,600. [1]	5,100 [2a]	5,100 [2a]
Default Naturally-Occurring Background Level ==>	11 [5]	659	1 [5]	73.07 [5]	17 [5]	1.4 [4a]	43 [4a]	1. [5]
Hot Spot Concentraion-Human Health ==>	na	na	na	4,600,000	8,000	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Total Chromium	Lead	Mercury	Selenium	Silver
	15-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	40.9	15.2	*na*	*na*	*na*
16	016	16-Jul-08	0.0 - 0.25	**53.7**	298.	0.515 U	442.	171.	0.0685 U	2.58 U	1.13
	016B	17-Oct-08	0.25 - 0.50	32.1 U	*na*	*na*	348.	101.	*na*	*na*	*na*
	016C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	87.9	*na*	*na*	*na*	*na*
	16-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	40.9	3.92	*na*	*na*	*na*
	16-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	49.4	4.54	*na*	*na*	*na*
17	017-A	16-Jul-08	0.0 - 0.25	5.25	264.	0.537 U	93.5	35.2	0.064 U	2.68 U	0.537 U
	17-B	27-Sep-11	0.5 - 1.00	*na*	*na*	*na*	39.9	4.23	*na*	*na*	*na*
	17-C	27-Sep-11	1.0 - 1.50	*na*	*na*	*na*	46.9	3.83	*na*	*na*	*na*
	17-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	38.4	3.88	*na*	*na*	*na*
	17-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	36.7	4.08	*na*	*na*	*na*
18	018	16-Jul-08	0.0 - 0.25	3.03 U	113.	0.606 U	290.	67.9	0.0902 U	3.03 U	0.606 U
19	019	16-Jul-08	0.0 - 0.25	4.89 U	59.1	0.978 U	956.	82.3	0.138 U	4.89 U	0.978 U
	19-B	27-Sep-11	0.5 - 1.00	*na*	*na*	*na*	99.3	135.	*na*	*na*	*na*
	19-C	27-Sep-11	1.0 - 1.50	*na*	*na*	*na*	118.	122.	*na*	*na*	*na*
	19-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	52.3	17.3	*na*	*na*	*na*
	19-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	53.4	25.9	*na*	*na*	*na*
20	020	16-Jul-08	0.0 - 0.25	4.9	65.9	0.515 U	997.	86.5	0.0794 U	2.58 U	0.515 U
	20-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	48.5	729.	*na*	*na*	*na*
	20C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	29.8	50.6	*na*	*na*	*na*
21	021	16-Jul-08	0.0 - 0.25	4.71	64.6	0.507 U	598.	**856.**	0.0683 U	2.53 U	0.507 U
	021B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	70.7	**2,160.**	*na*	*na*	*na*
	021C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	*na*	**2,160.**	*na*	*na*	*na*
	21-C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	55.2	80.2	*na*	*na*	*na*
	21-D	proposed	1.5 - 2.00	*na*	*na*	*na*	38.5	38.4	*na*	*na*	*na*
	21-E	proposed	2.0 - 2.50	*na*	*na*	*na*	44.7	14.8	*na*	*na*	*na*
22	022	16-Jul-08	0.0 - 0.25	2.69 U	133.	0.537 U	149.	76.9	0.091 U	2.69 U	0.537 U
	22-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	41.2	4.3	*na*	*na*	*na*
23	023	16-Jul-08	0.0 - 0.25	2.57 U	67.3	0.513 U	714.	411.	0.0766 U	2.57 U	0.513 U
24	024	16-Jul-08	0.0 - 0.25	5.37	80.5	0.489 U	1,010.	116.	0.0791 U	2.45 U	0.489 U
25	025	16-Jul-08	0.0 - 0.25	4.68 U	78.2	0.936 U	721.	159.	0.175 U	4.68 U	0.936 U
	25-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	36.7	5.03	*na*	*na*	*na*
26	026	16-Jul-08	0.0 - 0.25	5.16	104.	0.499 U	1,050.	92.9	0.0697 U	2.49 U	0.499 U
	026B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	384.	597.	*na*	*na*	*na*
	026C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	82.	141.	*na*	*na*	*na*
	26-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	80.3	63.7	*na*	*na*	*na*
	26-D	29-Aug-11	1.5 - 2.00	*na*	*na*	*na*	57.1	207.	*na*	*na*	*na*
	26-E	29-Aug-11	2.0 - 2.50	*na*	*na*	*na*	48.7	5.16	*na*	*na*	*na*
27	027	16-Jul-08	0.0 - 0.25	6.9	113.	0.495 U	1,030.	122.	0.0686 U	2.47 U	0.495 U
	027B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	81.6	314.	*na*	*na*	*na*
	027C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	*na*	65.1	*na*	*na*	*na*
	27-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	67.	12.9	*na*	*na*	*na*
	27-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	49.9	10.8	*na*	*na*	*na*
	27-DD	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	48.5	14.2	*na*	*na*	*na*
	27-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	41.4	7.69	*na*	*na*	*na*
28	028	16-Jul-08	0.0 - 0.25	2.66 U	115.	2.66 U	313.	41.9	0.0784 U	2.66 U	2.66 U
29	029	16-Jul-08	0.0 - 0.25	5.68	103.	2.47 U	1,290.	157.	0.0795 U	2.47 U	2.47 U
	029B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	44.3	132.	*na*	*na*	*na*
	029C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	*na*	309.	*na*	*na*	*na*
	29-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	32.	14.2	*na*	*na*	*na*
30	030	16-Jul-08	0.0 - 0.25	5.17	119.	2.78 U	862.	66.	0.0742 U	2.78 U	2.78 U
31	031	16-Jul-08	0.0 - 0.25	0.49 U	7.79	0.49 U	3.47	2.85	0.186 U	0.49 U	0.49 U

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Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Human Health: Excavation Worker ==>	370. [1]	>Max [1]	4,300 [1]	460,000. [2]	800 [1]	2,600. [1]	5,100 [2a]	5,100 [2a]
Default Naturally-Occurring Background Level ==>	11 [5]	659	1 [5]	73.07 [5]	17 [5]	1.4 [4a]	43 [4a]	1. [5]
Hot Spot Concentraion-Human Health ==>	na	na	na	4,600,000	8,000	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Total Chromium	Lead	Mercury	Selenium	Silver
32	032	16-Jul-08	0.0 - 0.25	1.92	23.3	0.505 U	13.8	3.89	0.149 U	0.505 U	0.505 U
33	033	16-Jul-08	0.0 - 0.25	2.87	67.8	0.51 U	273.	98.8	0.0899 U	0.51 U	0.51 U
34	034	16-Jul-08	0.0 - 0.25	1.48	48.6	0.505 U	22.5	6.26	0.159	0.505 U	0.505 U
35	035	16-Jul-08	0.0 - 0.25	2.22	146.	0.495 U	40.5	5.4	0.0892	0.495 U	0.495 U
36	036	16-Jul-08	0.0 - 0.25	2.12	50.7	0.521 U	31.5	9.56	0.157 U	0.521 U	0.521 U
37	037A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	32.9	9.9 U	*na*	*na*	*na*
38	038A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	30.5	10.6	*na*	*na*	*na*
39	039A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	75.	363.	*na*	*na*	*na*
	039B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	*na*	87.7	*na*	*na*	*na*
	39-B	31-Aug-11	0.50 - 1.00	*na*	*na*	*na*	51.1	17.6	*na*	*na*	*na*
	39C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	42.3	6.68	*na*	*na*	*na*
40	040A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	83.1	110.	*na*	*na*	*na*
41	041A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	35.7	10. U	*na*	*na*	*na*
42	042A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	48.6	9.9 U	*na*	*na*	*na*
43	043A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	72.5	61.4	*na*	*na*	*na*
	43-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	39.4	4.58	*na*	*na*	*na*
44	044A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	65.	24.9	*na*	*na*	*na*
45	045A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	136.	434.	*na*	*na*	*na*
	045B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	69.3	454.	*na*	*na*	*na*
46	046A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	109.	39.	*na*	*na*	*na*
47	047A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	266.	53.9	*na*	*na*	*na*
	047B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	33.3	*na*	*na*	*na*	*na*
	47-B	30-Aug-11	0.50 - 1.00	*na*	*na*	*na*	37.2	3.53	*na*	*na*	*na*
48	048A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	43.1	20.6 U	*na*	*na*	*na*
49	049A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	51.1	21.4	*na*	*na*	*na*
50	050A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	75.	12.5	*na*	*na*	*na*
51	051A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	59.	12.9 U	*na*	*na*	*na*
52	052A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	929.	500.	*na*	*na*	*na*
	052B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	49.1	245.	*na*	*na*	*na*
	52-B	30-Aug-11	0.50 - 1.00	*na*	*na*	*na*	34.3	11.7	*na*	*na*	*na*
53	053A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	40.6	12.8	*na*	*na*	*na*
54	054A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	9.76	33.7	*na*	*na*	*na*
	54-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	53.1	79.8	*na*	*na*	*na*
	54C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	46.4	16.1	*na*	*na*	*na*
55	055A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	49.6	12.4 U	*na*	*na*	*na*
56	056A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	79.4	23.9	*na*	*na*	*na*
57	057A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	95.6	31.2	*na*	*na*	*na*
	57-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	34.9	10.2	*na*	*na*	*na*
58	058A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	165.	44.1	*na*	*na*	*na*
	058-B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	73.7	*na*	*na*	*na*	*na*
	58-B	27-Sep-11	0.5 - 1.00	*na*	*na*	*na*	32.8	3.98	*na*	*na*	*na*
	58-C	27-Sep-11	1.0 - 1.50	*na*	*na*	*na*	29.8	3.45	*na*	*na*	*na*
59	059A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	539.	127.	*na*	*na*	*na*
	059B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	187.	*na*	*na*	*na*	*na*
	59-B	29-Aug-11	0.50 - 1.00	*na*	*na*	*na*	42.8	3.45	*na*	*na*	*na*
60	060A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	59.2	*12.7* U	*na*	*na*	*na*
61	61-A	31-Aug-11	0.0 - 0.50	*na*	*na*	*na*	33.8	27.9	*na*	*na*	*na*
	61B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	36.	5.51	*na*	*na*	*na*
	61C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	48.2	4.64	*na*	*na*	*na*
62	62-A	31-Aug-11	0.0 - 0.50	*na*	*na*	*na*	51.6	8.34	*na*	*na*	*na*
	62B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	41.4	3.56	*na*	*na*	*na*
	62C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	58.9	4.31	*na*	*na*	*na*

TABLE 1 – Soil and Sediment Analytical Results - Canyon Creek Trestle

Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Human Health: Excavation Worker ==>	370. [1]	>Max [1]	4,300 [1]	460,000. [2]	800 [1]	2,600. [1]	5,100 [2a]	5,100 [2a]
Default Naturally-Occurring Background Level ==>	11 [5]	659	1 [5]	73.07 [5]	17 [5]	1.4 [4a]	43 [4a]	1. [5]
Hot Spot Concentraion-Human Health ==>	na	na	na	4,600,000	8,000	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Total Chromium	Lead	Mercury	Selenium	Silver
63	63-A	31-Aug-11	0.0 - 0.50	na	na	na	50.5	11.	na	na	na
	63B	31-Aug-11	0.5 - 1.00	na	na	na	34.8	6.47	na	na	na
	63C	31-Aug-11	1.0 - 1.50	na	na	na	48.2	4.67	na	na	na
64	64-A	29-Aug-11	0.0 - 0.50	na	na	na	36.6	4.52	na	na	na
65	65-A	29-Aug-11	0.0 - 0.50	na	na	na	37.7	38.	na	na	na
	65-B	29-Aug-11	0.5 - 1.00	na	na	na	26.	5.08	na	na	na
	65-C	29-Aug-11	1.0 - 1.50	na	na	na	44.5	3.88	na	na	na
66	66-A	29-Aug-11	0.0 - 0.50	na	na	na	47.6	10.7	na	na	na
	66-B	29-Aug-11	0.5 - 1.00	na	na	na	41.2	4.45	na	na	na
	66-C	29-Aug-11	1.0 - 1.50	na	na	na	53.2	4.35	na	na	na
67	67-A	29-Aug-11	0.0 - 0.50	na	na	na	81.3	20.3	na	na	na
	67-B	29-Aug-11	0.5 - 1.00	na	na	na	50.6	25.8	na	na	na
	67-C	29-Aug-11	1.0 - 1.50	na	na	na	50.5	5.99	na	na	na
68	68-A	31-Aug-11	0.0 - 0.50	na	na	na	65.3	49.2	na	na	na
	68-AD	31-Aug-11	0.0 - 0.50	na	na	na	60.5	53.8	na	na	na
	68-B	31-Aug-11	0.5 - 1.00	na	na	na	48.2	12.4	na	na	na
	68-C	31-Aug-11	1.0 - 1.50	na	na	na	55.4	36.8	na	na	na
69	69-A	30-Aug-11	0.0 - 0.50	na	na	na	37.8	13.2	na	na	na
70	70-A	29-Aug-11	0.0 - 0.50	na	na	na	52.9	9.01	na	na	na
	70-B	29-Aug-11	0.5 - 1.00	na	na	na	37.4	5.14	na	na	na
	70-C	29-Aug-11	1.0 - 1.50	na	na	na	47.	3.87	na	na	na
71	71-A	29-Aug-11	0.0 - 0.50	na	na	na	40.5	5.71	na	na	na
	71-AD	29-Aug-11	0.0 - 0.50	na	na	na	41.1	6.18	na	na	na
72	72-A	30-Aug-11	0.0 - 0.50	na	na	na	27.9	3.28	na	na	na
73	73-A	30-Aug-11	0.0 - 0.50	na	na	na	38.1	6.8	na	na	na
74	74-A	30-Aug-11	0.0 - 0.50	na	na	na	38.8	16.	na	na	na
75	75-A	30-Aug-11	0.0 - 0.50	na	na	na	33.7	23.	na	na	na
76	76-A	30-Aug-11	0.0 - 0.50	na	na	na	25.4	5.61	na	na	na
77	77-A	30-Aug-11	0.0 0.50	na	na	na	37.6	6.35	na	na	na
78	78-A	26-Sep-11	0.0 - 0.50	na	na	na	410.	**1,300.**	na	na	na
	78-B	26-Sep-11	0.5 - 1.00	na	na	na	17.9	25.1	na	na	na
	78-C	26-Sep-11	1.0 - 1.50	na	na	na	6.57	7.29	na	na	na
	78-D	26-Sep-11	1.5 - 2.00	na	na	na	4.28	4.12	na	na	na
	78-E	26-Sep-11	2.0 - 2.50	na	na	na	20.1	24.2	na	na	na
79	79-A	27-Sep-11	0.0 - 0.50	na	na	na	na	na	na	na	na
	79-B	27-Sep-11	0.5 - 1.00	na	na	na	na	na	na	na	na
	79-C	27-Sep-11	1.0 - 1.50	na	na	na	41.	14.4	na	na	na
	79-D	27-Sep-11	1.5 - 2.00	na	na	na	43.2	12.9	na	na	na
	79-E	27-Sep-11	2.0 - 2.50	na	na	na	39.6	4.96	na	na	na
80	80-A	26-Sep-11	0.0 - 0.50	na	na	na	47.1	13.8	na	na	na
81	81-A	26-Sep-11	0.0 - 0.50	na	na	na	30.7	10.2	na	na	na
82	82-A	28-Sep-11	0.0 - 0.50	na	na	na	41.8	5.09	na	na	na
	82-AD	28-Sep-11	0.0 - 0.50	na	na	na	41.9	4.81	na	na	na
83	83-A	28-Sep-11	0.0 - 0.50	na	na	na	51.8	5.55	na	na	na
84	84-A	28-Sep-11	0.0 - 0.50	na	na	na	42.5	9.24	na	na	na
85	85-A	28-Sep-11	0.0 - 0.50	na	na	na	64.3	12.3	na	na	na
86	86-A	26-Sep-11	0.0 - 0.50	na	na	na	45.	10.4	na	na	na
87	87-A	26-Sep-11	0.0 - 0.50	na	na	na	48.8	10.1	na	na	na
88S	88-S	28-Sep-11	0.0 - 0.50	na	na	na	30.8	12.8	na	na	na
89S	89-S	28-Sep-11	0.0 - 0.50	na	na	na	99.6	39.9	na	na	na

TABLE 1 – Soil and Sediment Analytical Results - Canyon Creek Trestle

Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
Human Health: Excavation Worker ==>	370. [1]	>Max [1]	4,300 [1]	460,000. [2]	800 [1]	2,600. [1]	5,100 [2a]	5,100 [2a]
Default Naturally-Occurring Background Level ==>	11 [5]	659	1 [5]	73.07 [5]	17 [5]	1.4 [4a]	43 [4a]	1. [5]
Hot Spot Concentraion-Human Health ==>	na	na	na	4,600,000	8,000	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Total Chromium	Lead	Mercury	Selenium	Silver
90	90-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	50.3	*na*	*na*	*na*
	90-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	7.14	*na*	*na*	*na*
91	91-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	119.	*na*	*na*	*na*
	91-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	9.31	*na*	*na*	*na*
92	92-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	80.4	*na*	*na*	*na*
	92-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	10.9	*na*	*na*	*na*
93	93-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	245.	*na*	*na*	*na*
	93-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	12.9	*na*	*na*	*na*
94	94-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	407.	*na*	*na*	*na*
	94-AD	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	493.	*na*	*na*	*na*
	94-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	391.	*na*	*na*	*na*
95	95-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	439.	*na*	*na*	*na*
	95-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	531.	*na*	*na*	*na*
96	96-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	108.	*na*	*na*	*na*
	96-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	3.61	*na*	*na*	*na*
97	97-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	269.	*na*	*na*	*na*
	97-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	123.	*na*	*na*	*na*
98	98-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	159.	*na*	*na*	*na*
	98-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	24.2	*na*	*na*	*na*
99	99-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	377.	*na*	*na*	*na*
	99-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	385.	*na*	*na*	*na*
100	100-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	359.	*na*	*na*	*na*
	100-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	55.8	*na*	*na*	*na*
101	101-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	270.	*na*	*na*	*na*
	101-AD	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	218.	*na*	*na*	*na*
	101-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	109.	*na*	*na*	*na*
102	102-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	58.	*na*	*na*	*na*
	102-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	33.1	*na*	*na*	*na*
103	103-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	379.	*na*	*na*	*na*
	103-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	624.	*na*	*na*	*na*
104	104-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	742.	*na*	*na*	*na*
	104-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	591.	*na*	*na*	*na*
105	105-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	688.	*na*	*na*	*na*
	105-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	236.	*na*	*na*	*na*
106	106-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	148.	*na*	*na*	*na*
107	107-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	260.	*na*	*na*	*na*
	107-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	654.	*na*	*na*	*na*
108	108-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	462.	*na*	*na*	*na*
	108-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	79.1	*na*	*na*	*na*
109	109-A	10-Sep-13	0.0 - 0.50	*na*	*na*	*na*	*na*	42.4	*na*	*na*	*na*
	109-B	10-Sep-13	0.5 - 1.00	*na*	*na*	*na*	*na*	4.3	*na*	*na*	*na*

1 = DEQ Risk-Based Concentrations (RBCs) for Excavation Worker exposure scenario (Revised June 7, 2012).
2 = The May 2012 site investigation report demonstrated the soil consists of 99% chromium III, therefore the chromium III screening values are applied.
2a = Environmental Protection Agency Regional Screening Levels for industrial soil, May 2013
3 = U.S. EPA, Ecological Soil Screening Levels for Arsenic Interim Final, OSWER Directive 9285.7-62, March 2005
3a = U.S. EPA, Ecological Soil Screening Levels for Cadmium Interim Final, OSWER Directive 9285.7-65, March 2005
3b = U.S. EPA, Ecological Soil Screening Levels for Chromium Interim Final, OSWER Directive 9285.7-66, Revised April 2008
3c = U.S. EPA, Ecological Soil Screening Levels for Lead Interim Final, OSWER Directive 9285.7-70, March 2005
3d = U.S. EPA, Ecological Soil Screening Levels for Barium Interim Final, OSWER Directive 9285.7-63, February 2005
3e = U.S. EPA, Ecological Soil Screening Levels for Silver Interim Final, OSWER Directive 9285.7-77, September 2006
3f = U.S. EPA, Ecological Soil Screening Levels for Mercury Interim Final, OSWER Directive 9285.7-72, July 2007
4a = Presumed Background - DEQ Guidance for Assessing Bioaccumulative Chemicals of Concern in Sediment, January 31, 2007
4b = MacDonald DD, Ingersoll C.G., Berger T.A. (2000) Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Environmental Contamination and Contamination and Toxicity 39: 20-31
4c = Quoted in MacDonald et al. (1999); Appendix 3-1; Lowest Apparent Effects Threshold (LAET), Table 11, WDOE (1997)
5 = DEQ, Background Metals Report, Oregon Background Metals Evaluation, By GeoEngineers, June 30, 2010

Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
mg/kg = milligrams/kilogram
na = no analysis
nc = no criteria
ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE 2 – Summary of Soil Testing Results: Leachable (TCLP) Metals

Screening Levels in mg/L (ppm)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
RCRA Hazardous Waste Levels [1] ==>	5.	100.	1.	5.	5.	0.2	1.	5.

Laboratory Analytical Testing Results in mg/L (ppm)

Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
007	16-Jul-08	0.0 - 0.25	0.05 U	0.892	0.01 U	0.01 U	0.195	0.0002 U	0.05 U	0.02 U
029	16-Jul-08	0.0 - 0.25	0.05 U	0.445	0.01 U	0.026	0.05 U	0.0002 U	0.05 U	0.02 U

1 = EPA RCRA toxicity characteristic concentration for hazardous waste

bgs = below ground surface
EPA = U.S. Environmental Protection Agency
mg/L = milligrams/liter
ppm = parts per million
TCLP = Toxicity Characteristic Leaching Procedure
U = not detected above concentration indicated

TABLE 3 – Detected Trivalent and Hexavalent Chromium Concentrations in Soil and Sediment - Canyon Creek Trestle

Screening Levels in mg/kg (ppm)	Total Chromium	Chromium VI	Chromium III
Human Health: Excavation Worker[1] ==>	na	1,200	460,000 [1,1a]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Chromium	Chromium VI	Chromium III	Percent Chromium VI
12	12-B	31-Aug-11	0.5 - 1.00	117.	0.87	116.13	0.74%
19	19-C	27-Sep-11	1.0 - 1.50	118.	1.6	116.4	1.36%
78	78-A	26-Sep-11	0.0 - 0.50	410.	1.	409.	0.24%
						avg percent	1%

Deduced Chromium Concentrations in mg/kg (ppm)

					Assumes 1% Chromium VI	
01	001	16-Jul-08	0.0 - 0.25	1,050.	10.5	**1,039.5**
	001B	17-Oct-08	0.25 - 0.50	141.	1.41	139.59
	001C	17-Oct-08	0.5 - 0.75	66.	0.66	65.34
02	002	16-Jul-08	0.0 - 0.25	611.	6.11	**604.89**
	002B	17-Oct-08	0.25 - 0.50	64.1	0.64	63.46
	002C	17-Oct-08	0.5 - 0.75	*na*	na	na
	02-C	30-Aug-11	1.0 - 1.50	67.4	0.67	66.73
	02-D	26-Sep-11	1.5 - 2.00	39.1	0.39	38.71
	02-E	26-Sep-11	2.0 - 2.50	30.3	0.3	30.00
03	003	16-Jul-08	0.0 - 0.25	46.5	0.47	46.04
04	004	16-Jul-08	0.0 - 0.25	666.	6.66	**659.34**
	04-B	30-Aug-11	0.5 - 1.00	60.8	0.61	60.19
	04-BD	30-Aug-11	0.5 - 1.00	57.8	0.58	57.22
	04-C	26-Sep-11	1.0 - 1.50	24.8	0.25	24.55
	04-D	26-Sep-11	1.5 - 2.00	35.8	0.36	35.44
	04-E	26-Sep-11	2.0 - 2.50	38.1	0.38	37.72
	04-F	26-Sep-11	2.5 - 3.00	35.6	0.36	35.24
05	005	16-Jul-08	0.0 - 0.25	777.	7.77	**769.23**
	05-B	30-Aug-11	0.5 - 1.00	61.7	0.62	61.08
	05-C	30-Aug-11	1.0 - 1.50	37.5	0.38	37.13
06	006	16-Jul-08	0.0 - 0.25	58.3	0.58	57.72
07	007	16-Jul-08	0.0 - 0.25	370.	3.7	366.3
	007B	17-Oct-08	0.25 - 0.50	12.	0.12	11.88
	007C	17-Oct-08	0.5 - 0.75	*na*	na	na
	07C	26-Sep-11	1.0 - 1.50	6.45	0.06	6.39
	07-D	26-Sep-11	1.5 - 2.00	6.7	0.07	6.63
	07-E	26-Sep-11	2.0 - 2.50	6.65	0.07	6.58
08	008	16-Jul-08	0.0 - 0.25	725.	7.25	**717.75**
09	009	16-Jul-08	0.0 - 0.25	439.	4.39	**434.6**
	09-B	31-Aug-11	0.5 - 1.00	64.4	0.64	63.8
	9C	31-Aug-11	1.0 - 1.50	41.4	0.41	41.
10	010	16-Jul-08	0.0 - 0.25	1,400.	14.	**1,386**
	010B	17-Oct-08	0.25 - 0.50	151.	1.51	149.5
	010C	17-Oct-08	0.5 - 0.75	38.9	0.39	38.5
	10-C	30-Aug-11	1.0 - 1.50	29.5	0.3	29.2
	10-D	26-Sep-11	1.5 - 2.00	29.6	0.3	29.3
	10-E	26-Sep-11	2.0 - 2.50	22.3	0.22	22.1
11	011	16-Jul-08	0.0 - 0.25	92.7	0.93	92
	11-B	31-Aug-11	0.5 - 1.00	71.8	0.72	71.1
	11C	26-Sep-11	1.0 - 1.50	25.	0.25	24.8
	11-D	26-Sep-11	1.5 - 2.00	28.2	0.28	27.9
	11-E	26-Sep-11	2.0 - 2.50	17.7	0.18	17.5
	11-F	26-Sep-11	2.5 - 3.00	27.1	0.27	26.8
12	012	16-Jul-08	0.0 - 0.25	410.	4.1	406
	12C	31-Aug-11	1.0 - 1.50	40.	0.4	39.6
13	013	16-Jul-08	0.0 - 0.25	1,210.	12.1	**1,198**
	013B	17-Oct-08	0.25 - 0.50	31.9	0.32	31.6
14	014	16-Jul-08	0.0 - 0.25	832.	8.32	**823.7**
	014B	17-Oct-08	0.25 - 0.50	117.	1.17	115.8
	014C	17-Oct-08	0.5 - 0.75	48.8	0.49	48.3
15	015	16-Jul-08	0.0 - 0.25	525.	5.25	520
	15-B	30-Aug-11	0.5 - 1.00	40.9	0.41	40.49
16	016	16-Jul-08	0.0 - 0.25	442.	4.42	**437.6**
	016B	17-Oct-08	0.25 - 0.50	348.	3.48	344.5
	016C	17-Oct-08	0.5 - 0.75	87.9	0.88	87.
	16-D	27-Sep-11	1.5 - 2.00	40.9	0.41	40.5
	16-E	27-Sep-11	2.0 - 2.50	49.4	0.49	48.91
17	017-A	16-Jul-08	0.0 - 0.25	93.5	0.94	93
	17-B	27-Sep-11	0.5 - 1.00	39.9	0.4	39.5
	17-C	27-Sep-11	1.0 - 1.50	46.9	0.47	46.4
	17-D	27-Sep-11	1.5 - 2.00	38.4	0.38	38.
	17-E	27-Sep-11	2.0 - 2.50	36.7	0.37	36.33
18	018	16-Jul-08	0.0 - 0.25	290.	2.9	287.1
19	019	16-Jul-08	0.0 - 0.25	956.	9.56	**946.4**
	19-B	27-Sep-11	0.5 - 1.00	99.3	0.99	98.3
	19-D	27-Sep-11	1.5 - 2.00	52.3	0.52	51.8
	19-E	27-Sep-11	2.0 - 2.50	53.4	0.53	52.87
20	020	16-Jul-08	0.0 - 0.25	997.	9.97	**987**
	20-B	29-Aug-11	0.5 - 1.00	48.5	0.49	48.
	20C	29-Aug-11	1.0 - 1.50	29.8	0.3	29.5
21	021	16-Jul-08	0.0 - 0.25	598.	5.98	**592**

TABLE 3 – Detected Trivalent and Hexavalent Chromium Concentrations in Soil and Sediment - Canyon Creek Trestle

Screening Levels in mg/kg (ppm)				Total Chromium	Chromium VI	Chromium III
			Human Health: Excavation Worker[1] ==>	na	1,200	460,000 [1,1a]
	021B	17-Oct-08	0.25 - 0.50	70.7	0.71	70.
	021C	17-Oct-08	0.5 - 0.75	*na*	na	na
	21-C	31-Aug-11	1.0 - 1.50	55.2	0.55	54.6
	21-D	proposed	1.5 - 2.00	38.5	0.39	38.1
	21-E	proposed	2.0 - 2.50	44.7	0.45	44.25
22	022	16-Jul-08	0.0 - 0.25	149.	1.49	148
	22-B	29-Aug-11	0.5 - 1.00	41.2	0.41	40.79
23	023	16-Jul-08	0.0 - 0.25	714.	7.14	**706.86**
24	024	16-Jul-08	0.0 - 0.25	1,010.	10.1	**999.9**
25	025	16-Jul-08	0.0 - 0.25	721.	7.21	**713.8**
	25-B	29-Aug-11	0.5 - 1.00	36.7	0.37	36.33
26	026	16-Jul-08	0.0 - 0.25	1,050.	10.5	**1,040**
	026B	17-Oct-08	0.25 - 0.50	384.	3.84	**380.2**
	026C	17-Oct-08	0.5 - 0.75	82.	0.82	81.2
	26-C	29-Aug-11	1.0 - 1.50	80.3	0.8	79.5
	26-D	29-Aug-11	1.5 - 2.00	57.1	0.57	56.5
	26-E	29-Aug-11	2.0 - 2.50	48.7	0.49	48.21
27	027	16-Jul-08	0.0 - 0.25	1,030.	10.3	**1,020**
	027B	17-Oct-08	0.25 - 0.50	81.6	0.82	80.8
	027C	17-Oct-08	0.5 - 0.75	*na*	na	na
	27-C	29-Aug-11	1.0 - 1.50	67.	0.67	66.3
	27-D	27-Sep-11	1.5 - 2.00	49.9	0.5	49.4
	27-DD	27-Sep-11	1.5 - 2.00	48.5	0.49	48.0
	27-E	27-Sep-11	2.0 - 2.50	41.4	0.41	40.99
28	028	16-Jul-08	0.0 - 0.25	313.	3.13	309.87
29	029	16-Jul-08	0.0 - 0.25	1,290.	12.9	**1,277**
	029B	17-Oct-08	0.25 - 0.50	44.3	0.44	43.9
	029C	17-Oct-08	0.5 - 0.75	*na*	na	na
	29-C	29-Aug-11	1.0 - 1.50	32.	0.32	31.68
30	030	16-Jul-08	0.0 - 0.25	862.	8.62	**853.38**
31	031	16-Jul-08	0.0 - 0.25	3.47	0.03	3.44
32	032	16-Jul-08	0.0 - 0.25	13.8	0.14	13.66
33	033	16-Jul-08	0.0 - 0.25	273.	2.73	270.27
34	034	16-Jul-08	0.0 - 0.25	22.5	0.23	22.28
35	035	16-Jul-08	0.0 - 0.25	40.5	0.41	40.1
36	036	16-Jul-08	0.0 - 0.25	31.5	0.32	31.19
37	037A	17-Oct-08	0.0 - 0.25	32.9	0.33	32.57
38	038A	17-Oct-08	0.0 - 0.25	30.5	0.31	30.2
39	039A	17-Oct-08	0.0 - 0.25	75.	0.75	74.3
	039B	17-Oct-08	0.25 - 0.50	*na*	na	na
	39-B	31-Aug-11	0.50 - 1.00	51.1	0.51	50.6
	39C	31-Aug-11	1.0 - 1.50	42.3	0.42	41.88
40	040A	17-Oct-08	0.0 - 0.25	83.1	0.83	82.27
41	041A	17-Oct-08	0.0 - 0.25	35.7	0.36	35.34
42	042A	17-Oct-08	0.0 - 0.25	48.6	0.49	48.11
43	043A	17-Oct-08	0.0 - 0.25	72.5	0.73	
	43-B	29-Aug-11	0.5 - 1.00	39.4	0.39	39.01
44	044A	17-Oct-08	0.0 - 0.25	65.	0.65	64.35
45	045A	17-Oct-08	0.0 - 0.25	136.	1.36	135
	045B	17-Oct-08	0.25 - 0.50	69.3	0.69	68.61
46	046A	17-Oct-08	0.0 - 0.25	109.	1.09	107.91
47	047A	17-Oct-08	0.0 - 0.25	266.	2.66	263
	047B	17-Oct-08	0.25 - 0.50	33.3	0.33	33.
	47-B	30-Aug-11	0.50 - 1.00	37.2	0.37	36.83
48	048A	17-Oct-08	0.0 - 0.25	43.1	0.43	42.67
49	049A	17-Oct-08	0.0 - 0.25	51.1	0.51	50.59
50	050A	17-Oct-08	0.0 - 0.25	75.	0.75	74.25
51	051A	17-Oct-08	0.0 - 0.25	59.	0.59	58.41
52	052A	17-Oct-08	0.0 - 0.25	929.	9.29	**920**
	052B	17-Oct-08	0.25 - 0.50	49.1	0.49	48.6
	52-B	30-Aug-11	0.50 - 1.00	34.3	0.34	33.96
53	053A	17-Oct-08	0.0 - 0.25	40.6	0.41	40.19
54	054A	17-Oct-08	0.0 - 0.25	9.76	0.1	10
	54-B	31-Aug-11	0.5 - 1.00	53.1	0.53	52.6
	54C	31-Aug-11	1.0 - 1.50	46.4	0.46	45.94
55	055A	17-Oct-08	0.0 - 0.25	49.6	0.5	49.1
56	056A	17-Oct-08	0.0 - 0.25	79.4	0.79	78.61
57	057A	17-Oct-08	0.0 - 0.25	95.6	0.96	95
	57-B	30-Aug-11	0.5 - 1.00	34.9	0.35	34.55
58	058A	17-Oct-08	0.0 - 0.25	165.	1.65	163
	058-B	17-Oct-08	0.25 - 0.50	73.7	0.74	73.
	58-B	27-Sep-11	0.5 - 1.00	32.8	0.33	32.5
	58-C	27-Sep-11	1.0 - 1.50	29.8	0.3	29.5
59	059A	17-Oct-08	0.0 - 0.25	539.	5.39	**534**
	059B	17-Oct-08	0.25 - 0.50	187.	1.87	185.1
	59-B	29-Aug-11	0.50 - 1.00	42.8	0.43	42.37
60	060A	17-Oct-08	0.0 - 0.25	59.2	0.59	58.61
61	61-A	31-Aug-11	0.0 - 0.50	33.8	0.34	33
	61B	31-Aug-11	0.5 - 1.00	36.	0.36	35.6

TABLE 3 – Detected Trivalent and Hexavalent Chromium Concentrations in Soil and Sediment - Canyon Creek Trestle

Screening Levels in mg/kg (ppm)				Total Chromium	Chromium VI	Chromium III
			Human Health: Excavation Worker[1] ==>	na	1,200	460,000 [1,1a]
	61C	31-Aug-11	1.0 - 1.50	48.2	0.48	47.72
62	62-A	31-Aug-11	0.0 - 0.50	51.6	0.52	51
	62B	31-Aug-11	0.5 - 1.00	41.4	0.41	41.
	62C	31-Aug-11	1.0 - 1.50	58.9	0.59	58.31
63	63-A	31-Aug-11	0.0 - 0.50	50.5	0.51	50
	63B	31-Aug-11	0.5 - 1.00	34.8	0.35	34.5
	63C	31-Aug-11	1.0 - 1.50	48.2	0.48	47.72
64	64-A	29-Aug-11	0.0 - 0.50	36.6	0.37	36.23
65	65-A	29-Aug-11	0.0 - 0.50	37.7	0.38	37
	65-B	29-Aug-11	0.5 - 1.00	26.	0.26	25.7
	65-C	29-Aug-11	1.0 - 1.50	44.5	0.45	44.06
66	66-A	29-Aug-11	0.0 - 0.50	47.6	0.48	47
	66-B	29-Aug-11	0.5 - 1.00	41.2	0.41	40.8
	66-C	29-Aug-11	1.0 - 1.50	53.2	0.53	52.67
67	67-A	29-Aug-11	0.0 - 0.50	81.3	0.81	80
	67-B	29-Aug-11	0.5 - 1.00	50.6	0.51	50.1
	67-C	29-Aug-11	1.0 - 1.50	50.5	0.51	50.
68	68-A	31-Aug-11	0.0 - 0.50	65.3	0.65	65
	68-AD	31-Aug-11	0.0 - 0.50	60.5	0.61	59.9
	68-B	31-Aug-11	0.5 - 1.00	48.2	0.48	47.7
	68-C	31-Aug-11	1.0 - 1.50	55.4	0.55	54.85
69	69-A	30-Aug-11	0.0 - 0.50	37.8	0.38	37.42
70	70-A	29-Aug-11	0.0 - 0.50	52.9	0.53	52
	70-B	29-Aug-11	0.5 - 1.00	37.4	0.37	37.
	70-C	29-Aug-11	1.0 - 1.50	47.	0.47	46.53
71	71-A	29-Aug-11	0.0 - 0.50	40.5	0.41	40
	71-AD	29-Aug-11	0.0 - 0.50	41.1	0.41	40.69
72	72-A	30-Aug-11	0.0 - 0.50	27.9	0.28	27.62
73	73-A	30-Aug-11	0.0 - 0.50	38.1	0.38	37.72
74	74-A	30-Aug-11	0.0 - 0.50	38.8	0.39	38.41
75	75-A	30-Aug-11	0.0 - 0.50	33.7	0.34	33.36
76	76-A	30-Aug-11	0.0 - 0.50	25.4	0.25	25.15
77	77-A	30-Aug-11	0.0 0.50	37.6	0.38	37.22
	78-B	26-Sep-11	0.5 - 1.00	17.9	0.18	18
	78-C	26-Sep-11	1.0 - 1.50	6.57	0.07	6.5
	78-D	26-Sep-11	1.5 - 2.00	4.28	0.04	4.2
	78-E	26-Sep-11	2.0 - 2.50	20.1	0.2	19.9
79	79-A	27-Sep-11	0.0 - 0.50	*na*	na	na
	79-B	27-Sep-11	0.5 - 1.00	*na*	na	na
	79-C	27-Sep-11	1.0 - 1.50	41.	0.41	40.6
	79-D	27-Sep-11	1.5 - 2.00	43.2	0.43	42.8
	79-E	27-Sep-11	2.0 - 2.50	39.6	0.4	39.2
80	80-A	26-Sep-11	0.0 - 0.50	47.1	0.47	46.63
81	81-A	26-Sep-11	0.0 - 0.50	30.7	0.31	30.39
82	82-A	28-Sep-11	0.0 - 0.50	41.8	0.42	41.38
	82-AD	28-Sep-11	0.0 - 0.50	41.9	0.42	41.48
83	83-A	28-Sep-11	0.0 - 0.50	51.8	0.52	51.28
84	84-A	28-Sep-11	0.0 - 0.50	42.5	0.43	42.08
85	85-A	28-Sep-11	0.0 - 0.50	64.3	0.64	63.66
86	86-A	26-Sep-11	0.0 - 0.50	45.	0.45	44.55
87	87-A	26-Sep-11	0.0 - 0.50	48.8	0.49	48.31
88S	88-S	28-Sep-11	0.0 - 0.50	30.8	0.31	30.49
89S	89-S	28-Sep-11	0.0 - 0.50	99.6	1.	98.6

1 = DEQ Risk-Based Concentrations (RBCs) for Occupational Worker (Revised November 15, 2011).
1a = Construction Worker RBC used in place of Excavation Worker RBC because Excavation Worker RBC is >MAX (100,000 mg/kg).

Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE 4 – Soil Analytical Results for PCBs - Canyon, Pint, and Cripple Creek Trestles

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Polychlorinated Biphenyls (Aroclors)					
				1016	1221	1232	1248	1254	1260
CYN-110831-11	-11-B	31-Aug-11	0.50 - 1.00	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U
PNT-110901-04	-04-A	1-Sep-11	0.0 - 0.50	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U
PNT-110901-05	-05-A	1-Sep-11	0.0 - 0.50	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U
PNT-110901-28	-28-A	1-Sep-11	0.0 - 0.50	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U
CRP-110912-06	-06-A	12-Sep-11	0.0 - 0.50	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U
CRP-110912-31	-31-A	31-Aug-11	0.0 - 0.50	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
mg/kg = milligrams/kilogram
na = no analysis
nc = no criteria
ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE 5 – Soil and Sediment Analytical Results – Pint Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	370. [1]	4,300 [1]	460,000 [2]	800 [1]	43,000 [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	8,000	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
-01	-01-A	1-Sep-11	0.0 - 0.50	8.31	1.2 U	85.7	147.	1.2 U
	-01-B	1-Sep-11	0.50 - 1.00	2.5 U	1.25 U	46.1	15.8	1.25 U
	-01-C	1-Sep-11	1.0 - 1.50	2.69	1.26 U	50.6	9.8	1.26 U
-02	-02-A	1-Sep-11	0.0 - 0.50	2.52 U	1.26 U	47.1	81.8	1.26 U
	-02-B	1-Sep-11	0.50 - 1.00	2.65 U	na	46.9	34.3	na
	-02-C	1-Sep-11	1.0 - 1.50	2.7 U	na	44.4	13.8	na
-03	-03-A	1-Sep-11	0.0 - 0.50	12.3	1.15 U	62.5	267.	1.15 U
	-03-AD	1-Sep-11	0.0 - 0.50	17.6	na	62.8	**840.**	na
	-03-B	1-Sep-11	0.50 - 1.00	2.56 U	na	60.4	26.8	na
	-03-C	4-Oct-11	1.0 - 1.50	2.85 U	na	56.7	7.62	na
	-03-D	4-Oct-11	1.5 - 2.00	3. U	na	60.9	9.4	na
-04	-04-A	1-Sep-11	0.0 - 0.50	10.2	1.1 U	41.8	**1,370.**	1.1 U
	-04-AD	1-Sep-11	0.0 - 0.50	8.72	na	44.2	**1,240.**	na
	-04-B	1-Sep-11	0.50 - 1.00	2.67 U	na	56.5	90.5	na
	-04-C	1-Sep-11	1.0 - 1.50	2.86 U	na	71.5	43.1	na
	-04-D	4-Oct-11	1.5 - 2.00	2.87 U	na	54.2	22.8	na
	-04-E	4-Oct-11	2.0 - 2.50	2.65 U	na	58.7	21.7	na
-05	-05-A	1-Sep-11	0.0 - 0.50	3.88	1.15 U	39.7	**913.**	1.15 U
	-05-B	1-Sep-11	0.50 - 1.00	6.53	na	44.3	**559.**	na
	-05-C	1-Sep-11	1.0 - 1.50	2.85	na	52.5	192.	na
	-05-D	4-Oct-11	1.5 - 2.00	2.54 U	na	50.4	26.3	na
	-05-E	4-Oct-11	2.0 - 2.50	2.58 U	na	54.1	36.	na
-06	-06-A	2-Sep-11	0.0 - 0.50	5.47	1.11 U	47.1	**834.**	1.11 U
	-06-B	2-Sep-11	0.50 - 1.00	2.63 U	1.31 U	85.1	31.4	1.31 U
	-06-C	2-Sep-11	1.0 - 1.50	2.92 U	na	91.1	94.6	na
	-06-C	4-Oct-11	1.0 - 1.50	2.91 U	na	72.5	62.6	na
	-06-D	4-Oct-11	1.5 - 2.00	2.72 U	na	55.1	14.	na
-07	-07-A	6-Sep-11	0.0 - 0.50	2.53 U	1.26 U	67.4	9.63	1.26 U
	-07-B	6-Sep-11	0.50 - 1.00	2.91 U	1.45 U	81.6	7.68	1.45 U
	-07-C	6-Sep-11	1.0 - 1.50	2.73 U	1.37 U	87.3	9.93	1.37 U
-08	-08-A	6-Sep-11	0.0 - 0.50	2.57 U	1.28 U	69.3	19.8	1.28 U
	-08-AD	6-Sep-11	0.0 - 0.50	2.41 U	na	78.8	18.2	na
	-08-B	6-Sep-11	0.50 - 1.00	2.63 U	na	78.5	10.	na
	-08-C	6-Sep-11	1.0 - 1.50	2.63 U	na	74.2	27.7	na
	-08-D	4-Oct-11	1.5 - 2.00	2.96 U	na	77.3	14.2	na
	-08-DD	4-Oct-11	1.5 - 2.00	2.87 U	na	59.2	11.9	na
	-08-E	4-Oct-11	2.0 - 2.50	2.63 U	na	65.7	9.83	na
-09	-09-A	6-Sep-11	0.0 - 0.50	2.85 U	1.43 U	45.4	9.57	1.43 U
	-09-B	6-Sep-11	0.50 - 1.00	2.45 U	1.23 U	56.2	12.4	1.23 U
	-09-C	6-Sep-11	1.0 - 1.50	2.5 U	1.25 U	54.5	8.58	1.25 U
-10	-10-A	6-Sep-11	0.0 - 0.50	2.97 U	1.48 U	51.4	20.7	1.2 U
	-10-B	6-Sep-11	0.50 - 1.00	2.61 U	1.3 U	66.7	7.43	1.3 U
	-10-C	6-Sep-11	1.0 - 1.50	2.97 U	1.48 U	54.6	6.13	1.48 U
-11	-11-A	1-Sep-11	0.0 - 0.50	2.56 U	1.28 U	45.8	7.98	1.28 U
	-11AD	1-Sep-11	0.0 - 0.50	2.64 U	1.32 U	49.	22.3	1.32 U
	-11-B	1-Sep-11	0.50 - 1.00	2.63 U	na	53.2	9.58	na
	-11-C	1-Sep-11	1.0 - 1.40	2.58 U	na	56.7	8.55	na
-12	-12-A	6-Sep-11	0.0 - 0.50	2.5 U	1.25 U	36.2	80.6	1.25 U
	-12-AD	6-Sep-11	0.0 - 0.50	2.71 U	1.36 U	44.7	91.6	1.36 U
	-12-B	6-Sep-11	0.50 - 1.00	2.72 U	1.36 U	48.2	27.5	1.36 U
	-12-C	6-Sep-11	1.0 - 1.50	2.7 U	1.35 U	42.	25.	1.35 U
	-12-D	30-Sep-11	1.5 - 2.00	2.43 U	na	36.2	5.69	na
	-12-E	30-Sep-11	2.0 - 2.50	2.31 U	na	42.6	8.64	na
-13	-13-A	7-Sep-11	0.0 - 0.50	2.41 U	1.21 U	59.	67.4	1.21 U
	-13-B	7-Sep-11	0.50 - 1.00	2.63 U	1.31 U	85.1	13.2	1.31 U
	-13-C	7-Sep-11	1.0 - 1.50	2.61 U	1.31 U	88.5	6.56	1.31 U
-14	-14-A	6-Sep-11	0.0 - 0.50	2.3 U	1.15 U	60.8	10.4	1.15 U
	-14-B	6-Sep-11	0.50 - 1.00	2.58 U	1.29 U	66.3	8.64	1.29 U
	-14-C	6-Sep-11	1.0 - 1.50	2.6 U	1.3 U	65.9	7.54	1.3 U
-15	-15-A	1-Sep-11	0.0 - 0.50	2.63 U	1.31 U	46.8	22.1	1.31 U

TABLE 5 – Soil and Sediment Analytical Results – Pint Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	370. [1]	4,300 [1]	460,000 [2]	800 [1]	43,000 [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	8,000	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
	-15-B	1-Sep-11	0.50 - 1.00	2.58 U	na	44.2	8.28	na
	-15-C	1-Sep-11	1.0 - 1.50	2.68 U	na	44.	7.17	na
-16	-16-A	6-Sep-11	0.0 - 0.50	2.4 U	1.2 U	53.	10.1	1.2 U
	-16-B	6-Sep-11	0.50 - 1.00	2.44 U	1.22 U	52.2	7.7	1.22 U
	-16-C	6-Sep-11	1.0 - 1.50	2.48 U	1.24 U	50.5	7.41	1.24 U
-17	-17-A	1-Sep-11	0.0 - 0.50	2.49 U	1.25 U	44.	29.5	1.25 U
	-17-B	1-Sep-11	0.50 - 1.00	2.65 U	na	42.1	11.4	na
	-17-C	1-Sep-11	1.0 - 1.50	2.69 U	na	45.8	8.77	na
-18	-18-A	1-Sep-11	0.0 - 0.50	2.55 U	1.28 U	43.5	106.	1.28 U
	-18-B	1-Sep-11	0.50 - 1.00	2.53 U	na	51.6	11.2	na
	-18-C	1-Sep-11	1.0 - 1.50	2.65 U	na	42.6	11.7	na
-19	-19-A	7-Sep-11	0.0 - 0.50	2.63 U	1.31 U	55.4	28.2	1.31 U
	-19-B	7-Sep-11	0.50 - 1.00	2.6 U	1.3 U	62.5	14.2	1.3 U
	-19-C	7-Sep-11	1.0 - 1.50	2.7 U	1.35 U	58.1	9.77	1.35 U
-20	-20-A	6-Sep-11	0.0 - 0.50	2.6 U	1.3 U	64.6	19.1	1.3 U
	-20-B	6-Sep-11	0.50 - 1.00	2.67 U	1.33 U	66.3	7.46	1.33 U
	-20-C	6-Sep-11	1.0 - 1.50	2.48 U	1.24 U	72.1	7.13	1.24 U
-21	-21-A	6-Sep-11	0.0 - 0.50	2.61	1.27 U	54.1	10.8	1.27 U
	-21-B	6-Sep-11	0.50 - 1.00	3.04	1.17 U	64.8	8.84	1.17 U
	-21-C	6-Sep-11	1.0 - 1.50	3.57	1.25 U	75.	9.68	1.25 U
-22	-22-A	1-Sep-11	0.0 - 0.50	2.43 U	1.21 U	44.2	10.2	1.21 U
-23	-23-A	1-Sep-11	0.0 - 0.50	2.59	1.25 U	35.2	16.6	1.25 U
-24	-24-A	7-Sep-11	0.0 - 0.50	2.6 U	1.3 U	50.	15.5	1.3 U
	-24-B	7-Sep-11	0.50 - 1.00	2.79 U	1.4 U	60.4	10.2	1.4 U
	-24-C	7-Sep-11	1.0 - 1.50	2.6 U	1.3 U	64.6	7.51	1.3 U
-25	-25-A	7-Sep-11	0.0 - 0.50	2.48 U	1.24 U	42.1	8.85	1.24 U
-26	-26-A	1-Sep-11	0.0 - 0.50	2.46 U	1.23 U	51.5	23.6	1.23 U
	-26-B	1-Sep-11	0.50 - 1.00	2.74 U	na	57.6	8.54	na
	-26-C	1-Sep-11	1.0 - 1.50	2.72 U	na	52.	7.54	na
-27	-27-A	1-Sep-11	0.0 - 0.50	2.76 U	1.38 U	54.2	90.5	1.38 U
	-27-B	1-Sep-11	0.50 - 1.00	2.84 U	na	58.1	9.49	na
	-27-C	1-Sep-11	1.0 - 1.50	2.7 U	na	56.3	7.89	na
-28	-28-A	1-Sep-11	0.0 - 0.50	9.43	1.26 U	57.6	**830.**	1.26 U
	-28-B	1-Sep-11	0.50 - 1.00	2.91 U	na	46.7	30.4	na
	-28-C	1-Sep-11	1.0 - 1.50	2.92 U	na	48.8	56.	na
	-28-D	4-Oct-11	1.5 - 2.00	2.83 U	na	57.5	12.1	na
	-28-E	4-Oct-11	2.0 - 2.50	2.67 U	na	45.9	11.5	na
-29	-29-A	2-Sep-11	0.0 - 0.50	15.1	0.986 U	44.4	**880.**	0.986 U
	-29-B	2-Sep-11	0.50 - 1.00	3.74	1.25 U	67.8	169.	1.25 U
	-29-C	2-Sep-11	1.0 - 1.50	2.84 U	1.42 U	53.7	102.	1.42 U
	-29-D	30-Sep-11	1.5 - 2.00	3.1 U	na	42.2	25.5	na
	-29-E	30-Sep-11	2.0 - 2.50	3.56 U	na	42.3	36.	na
	-29-F	30-Sep-11	2.5 - 3.00	3.11 U	na	43.5	20.9	na
-30	-30-A	2-Sep-11	0.0 - 0.50	9.34	1.4 U	46.5	692.	1.4 U
	-30-B	2-Sep-11	0.50 - 1.00	2.59 U	1.3 U	74.6	39.6	1.3 U
	-30-C	2-Sep-11	1.0 - 1.50	2.6 U	1.3 U	77.8	16.5	1.3 U
-31	-31-A	2-Sep-11	0.0 - 0.50	11.6	1.14 U	62.7	451.	1.14 U
	-31-AD	2-Sep-11	0.0 - 0.50	11.	1.27 U	68.9	326.	1.27 U
	-31-B	2-Sep-11	0.50 - 1.00	2.95 U	1.47 U	60.1	8.87	1.47 U
	-31-C	2-Sep-11	1.0 - 1.50	3.15 U	1.58 U	56.7	7.8	1.58 U
-32	-32-A	2-Sep-11	0.0 - 0.50	2.58	1.26 U	76.8	25.	1.26 U
	-32-B	2-Sep-11	0.50 - 1.00	2.56 U	1.28 U	115.	8.62	1.28 U
	-32-C	2-Sep-11	1.0 - 1.50	2.66 U	1.33 U	90.	8.32	1.33 U
-33	-33-A	6-Sep-11	0.0 - 0.50	2.74 U	1.37 U	78.5	17.6	1.37 U
	-33-B	6-Sep-11	0.50 - 1.00	2.75 U	1.37 U	92.1	7.6	1.37 U
	-33-C	6-Sep-11	1.0 - 1.50	2.84 U	1.42 U	98.3	6.23	1.42 U
-34	-34-A	6-Sep-11	0.0 - 0.50	2.57 U	1.29 U	44.2	39.	1.29 U
	-34-B	6-Sep-11	0.50 - 1.00	2.71 U	1.35 U	54.8	9.13	1.35 U
	-34-C	6-Sep-11	1.0 - 1.50	2.98 U	1.49 U	74.	7.39	1.49 U
-35	-35-A	2-Sep-11	0.0 - 0.50	2.9 U	1.45 U	46.	132.	1.45 U
	-35-B	2-Sep-11	0.50 - 1.00	2.57 U	1.28 U	63.8	63.8	1.28 U
	-35-C	2-Sep-11	1.0 - 1.50	2.69 U	1.35 U	58.4	27.	1.35 U
	-35-D	3-Oct-11	1.5 - 2.00	2.35 U	na	52.9	5.35	na
	-35-E	3-Oct-11	2.0 - 2.50	2.41 U	na	41.2	3.92	na

TABLE 5 – Soil and Sediment Analytical Results – Pint Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	370. [1]	4,300 [1]	460,000 [2]	800 [1]	43,000 [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	8,000	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
-36	-36-A	6-Sep-11	0.0 - 0.50	2.9 U	1.45 U	57.9	54.6	1.45 U
	-36-B	6-Sep-11	0.50 - 1.00	2.7 U	1.35 U	72.	8.42	1.35 U
	-36-C	6-Sep-11	1.0 - 1.50	2.47 U	1.24 U	65.	7.64	1.24 U
-37	-37-A	2-Sep-11	0.0 - 0.50	2.95 U	1.48 U	55.1	10.5	1.48 U
	-37-B	2-Sep-11	0.50 - 1.00	2.49 U	1.24 U	76.5	7.62	1.24 U
	-37-C	2-Sep-11	1.0 - 1.50	2.56 U	1.28 U	89.7	7.09	1.28 U
-38	-38-A	2-Sep-11	0.0 - 0.50	2.55 U	1.27 U	69.3	17.4	1.27 U
	-38-B	2-Sep-11	0.50 - 1.00	2.63 U	1.32 U	73.8	10.8	1.32 U
	-38-C	2-Sep-11	1.0 - 1.50	2.62 U	1.31 U	74.	7.49	1.31 U
-39	-39-A	2-Sep-11	0.0 - 0.50	2.56 U	1.28 U	69.	47.1	1.28 U
	-39-B	2-Sep-11	0.50 - 1.00	2.44 U	1.22 U	68.3	33.8	1.22 U
	-39-C	2-Sep-11	1.0 - 1.50	2.41 U	1.2 U	59.8	31.9	1.2 U
	-39-D	3-Oct-11	1.5 - 2.00	2.45 U	na	65.6	28.4	na
	-39-E	3-Oct-11	2.0 - 2.50	2.53 U	na	90.7	12.7	na
-40	-40-A	2-Sep-11	0.0 - 0.50	2.66 U	1.33 U	34.2	35.5	1.33 U
	-40-B	2-Sep-11	0.0 - 0.50	2.43 U	1.22 U	42.	20.8	1.22 U
	-40-BD	2-Sep-11	0.50 - 1.00	2.64 U	1.32 U	46.1	19.1	1.32 U
	-40-C	2-Sep-11	1.0 - 1.50	2.41 U	1.21 U	41.	5.23	1.21 U
-41	-41-A	6-Sep-11	0.0 - 0.50	2.71 U	1.35 U	67.2	33.1	1.35 U
	-41-B	6-Sep-11	0.50 - 1.00	2.38 U	1.19 U	52.8	9.27	1.19 U
	-41-C	6-Sep-11	1.0 - 1.50	2.44 U	1.22 U	66.7	8.52	1.22 U
-42	-42-A	6-Sep-11	0.0 - 0.50	2.36 U	1.18 U	35.6	16.4	1.18 U
-43	-43-A	2-Sep-11	0.0 - 0.50	2.51 U	1.26 U	64.5	19.7	1.26 U
	-43-B	2-Sep-11	0.50 - 1.00	2.61 U	1.31 U	70.2	8.1	1.31 U
	-43-C	2-Sep-11	1.0 - 1.50	2.75 U	1.38 U	70.2	6.55	1.38 U
-44	-44-A	6-Sep-11	0.0 - 0.50	2.44 U	1.22 U	92.5	22.9	1.22 U
	-44-B	6-Sep-11	0.50 - 1.00	2.58 U	1.29 U	102.	13.3	1.29 U
	-44-C	6-Sep-11	1.0 - 1.50	2.49 U	1.24 U	86.7	7.44	1.24 U
-45S	-45S	7-Sep-11	0.00 - 0.50	3.01 U	1.5 U	34.7	4.41	1.5 U
-46S	-46S	7-Sep-11	0.00 - 0.50	2.89 U	1.45 U	19.4	12.3	1.45 U
-47S	-47S	7-Sep-11	0.00 - 0.50	2.54 U	1.27 U	18.8	5.32	1.27 U
-48S	-48S	7-Sep-11	0.00 - 0.50	2.87 U	1.43 U	39.6	7.47	1.43 U
	-48SD	7-Sep-11	0.00 - 0.50	2.93 U	1.46 U	37.3	7.99	1.46 U
49	-49-A	3-Oct-11	0.0 - 0.50	2.68 U	na	53.1	7.55	na
50	-50-A	3-Oct-11	0.0 - 0.50	2.52 U	na	66.9	41.3	na
	-50-AD	3-Oct-11	0.0 - 0.50	2.55 U	na	66.7	45.2	na
	-50-B	3-Oct-11	0.50 - 1.00	2.44 U	na	72.2	16.5	na
51	-51-A	3-Oct-11	0.0 - 0.50	2.8 U	na	70.6	19.7	na
52	-52-A	3-Oct-11	0.0 - 0.50	2.55	na	47.3	22.1	na
53	-53-A	3-Oct-11	0.0 - 0.50	2.6 U	na	40.2	10.4	na
54	-54-A	3-Oct-11	0.0 - 0.50	2.66 U	na	87.7	6.7	na
55	-55-A	3-Oct-11	0.0 - 0.50	2.61 U	na	76.4	7.12	na
56	-56-A	3-Oct-11	0.0 - 0.50	2.42 U	na	40.9	13.3	na
57	-57-A	30-Sep-11	0.0 - 0.50	2.38 U	na	40.1	10.6	na
	-57-AD	30-Sep-11	0.00 - 0.50	2.35	na	40.6	10.4	na
58	-58-A	30-Sep-11	0.0 - 0.50	2.56 U	na	58.1	20.4	na
	-58-B	30-Sep-11	0.50 - 1.00	2.49 U	na	81.6	10.3	na
59	-59-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	1,530.	*na*
	-58-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	562.	*na*
60	-60-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	795.	*na*
	-60-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	290.	*na*
61	-61-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	183.	*na*
	-61-AD	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	242.	*na*
	-61-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	37.4	*na*
62	-62-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	27.1	*na*
	-62-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	12.1	*na*
63	-63-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	277.	*na*
	-63-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	348.	*na*

TABLE 5 – Soil and Sediment Analytical Results – Pint Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	**370.** [1]	**4,300** [1]	**460,000** [2]	**800** [1]	**43,000** [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	8,000	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
64	-64-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	210.	*na*
	-64-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	6.77	*na*
65	-65-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	32.3	*na*
	-65-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	39.1	*na*
66	-66-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	176.	*na*
	-66-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	50.	*na*
67	-67-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	71.7	*na*
	-67-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	60.3	*na*
68	-68-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	34.4	*na*
	-68-AD	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	13.9	*na*
	-68-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	14.1	*na*
69	-69-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	88.9	*na*
	-69-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	86.8	*na*
70	-70-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	108.	*na*
	-70-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	12.4	*na*
71	-71-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	280.	*na*
	-71-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	186.	*na*
72	-72-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	111.	*na*
	-72-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	84.8	*na*
73	-73-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	505.	*na*
	-73-AD	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	424.	*na*
	-73-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	107.	*na*
74	-74-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	169.	*na*
	-74-AD	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	158.	*na*
	-74-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	101.	*na*
75	-75-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	485.	*na*
	-75-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	17.6	*na*
76	-76-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	79.5	*na*
	-76-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	19.1	*na*
77	-77-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	479.	*na*
	-77-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	238.	*na*
78	-78-A	10-Sep-13	0.00 - 0.50	*na*	*na*	*na*	141.	*na*
	-78-B	10-Sep-13	0.50 - 1.00	*na*	*na*	*na*	72.6	*na*

1 = DEQ Risk-Based Concentrations (RBCs) for Excavation Worker exposure scenario (Revised June 7, 2012).
2 = The May 2012 site investigation report demonstrated the soil consists of 99% chromium III, therefore the chromium III screening values are applied.
2a = Environmental Protection Agency Regional Screening Levels for industrial soil, May 2013
3 = DEQ, Background Metals Report, Oregon Background Metals Evaluation, By GeoEngineers, June 30, 2010

Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
mg/kg = milligrams/kilogram
na = no analysis
nc = no criteria
ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE 6 – Surface Water Analytical Results - Pint Creek Trestle

Screening Levels in ug/L (ppm)	Arsenic	Chromium	Lead
DEQ 2004 AWQC (Chronic) ==>	0.14	11	1

Laboratory Analytical Testing Results in ug/L (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Chromium	Lead
60W	-60W	17-May-16	n/a	2 U	1.2 J	1 U

Bold and Highlighted = Concentration exceeds Screening Level

AWQC = Ambient Water Quality Criteria
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
W - Surface Water

ug/L = microgram per liter
na = no analysis
nc = no criteria

ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE 7 – Soil and Sediment Analytcial Results - Cripple Creek Trestle

Selected Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	370. [1]	4,300 [1]	460,000 [2]	800 [1]	43,000 [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
-01	-01-A	9-Sep-11	0.0 - 0.50	2.38 U	1.19 U	46.7	23.4	1.19 U
	-01-B	9-Sep-11	0.50 - 1.00	2.38 U	1.19 U	59.	10.3	1.19 U
	-01-C	9-Sep-11	1.0 - 1.50	2.45 U	1.22 U	58.4	8.6	1.22 U
-02	-02-A	12-Sep-11	0.0 - 0.50	7.91	1.19 U	50.1	171.	1.19 U
	-02-B	12-Sep-11	0.50 - 1.00	2.42 U	1.21 U	44.5	46.7	1.21 U
	-02-C	12-Sep-11	1.0 - 1.50	2.61 U	1.31 U	44.6	53.5	1.31 U
	-02-D	29-Sep-11	1.5 - 2.00	2.56 U	na	32.2	10.4	na
	-02-E	29-Sep-11	2.0 - 2.50	2.35 U	na	36.2	8.9	na
-03	-03-A	12-Sep-11	0.0 - 0.50	3.99	1.21 U	24.4	26.	1.21 U
	-03-B	12-Sep-11	0.50 - 1.00	3.29	1.16 U	26.5	24.	1.16 U
-04	-04-A	12-Sep-11	0.0 - 0.50	2.2 U	1.1 U	11.8	32.3	1.1 U
	-04-B	12-Sep-11	0.50 - 1.00	2.3 U	1.15 U	15.4	8.53	1.15 U
-05	-05-A	12-Sep-11	0.0 - 0.50	**23.3**	1.15 U	57.7	221.	1.15 U
	-05-B	12-Sep-11	0.50 - 1.00	2.46 U	1.23 U	46.6	131.	1.23
	-05-C	12-Sep-11	1.0 - 1.50	2.48 U	1.24 U	35.	56.8	1.24 U
	-05-D	29-Sep-11	1.5 - 2.00	2.44 U	na	47.3	18.8	na
	-05-E	29-Sep-11	2.0 - 2.50	2.36 U	na	40.	20.8	na
-06	-06-A	12-Sep-11	0.0 - 0.50	**14.9**	1.05 U	45.4	520.	1.05 U
	-06-B	12-Sep-11	0.50 - 1.00	2.51 U	1.25 U	46.7	125.	1.25 U
	-06-BD	12-Sep-11	0.50 - 1.00	2.38 U	1.19 U	54.5	135.	1.19 U
	-06-C	12-Sep-11	1.0 - 1.50	2.38 U	1.19 U	53.5	51.6	1.19 U
	-06-D	29-Sep-11	1.5 - 2.00	2.23 U	na	37.6	38.9	na
	-06-E	29-Sep-11	2.0 - 2.50	2.4 U	na	33.8	35.7	na
	-06F	29-Sep-11	2.5 - 3.00	2.5 U	na	44.3	9.18	na
-07	-07-A	12-Sep-11	0.0 - 0.50	3.41	1.13 U	18.9	175.	1.13 U
	-07-B	12-Sep-11	0.50 - 1.00	2.17 U	1.08 U	12.3	92.3	1.08 U
	-07-C	12-Sep-11	1.0 - 1.50	2.21 U	1.11 U	22.1	82.2	1.11 U
	-07-D	28-Sep-11	1.5 - 2.00	2.14 U	na	15.2	11.4	na
	-07-E	28-Sep-11	2.0 - 2.50	2.26 U	na	13.4	9.15	na
-08	-08-A	9-Sep-11	0.0 - 0.50	**17.1**	1.02 U	48.1	488.	1.02 U
	-08-B	9-Sep-11	0.50 - 1.00	**7.55**	1.19 U	49.5	408.	1.19 U
-09	-09-A	9-Sep-11	0.0 - 0.50	**19.5**	1.12 U	57.3	428.	1.12 U
	-09-B	9-Sep-11	0.50 - 1.00	7.56	1.25 U	65.3	124.	1.25 U
	-09-BD	9-Sep-11	0.50 - 1.00	5.77	1.25 U	56.5	181.	1.25 U
	-09-C	9-Sep-11	1.0 - 1.50	5.75	1.25 U	61.2	92.6	1.25 U
	-09-D	30-Sep-11	1.5 - 2.00	2.67 U	na	36.1	13.5	na
	-09-E	30-Sep-11	2.0 - 2.50	2.44 U	na	41.	24.6	na
	-09-F	30-Sep-11	2.5 - 3.00	2.41 U	na	55.6	12.8	na
-10	-10-A	9-Sep-11	0.0 - 0.50	8.96	1.33 U	55.6	104.	1.33 U
	-10-B	9-Sep-11	0.50 - 1.00	4.77	1.22 U	52.4	50.3	1.22 U
	-10-C	9-Sep-11	1.0 - 1.50	2.53	1.26 U	55.1	15.7	1.26 U
-11	-11-A	9-Sep-11	0.0 - 0.50	2.67 U	1.34 U	35.7	26.9	1.34 U
	-11-B	9-Sep-11	0.50 - 1.00	2.27 U	1.13 U	55.	20.7	1.13 U
	-11-C	9-Sep-11	1.0 - 1.50	2.47 U	1.24 U	61.7	8.49	1.24 U
-12	-12-A	12-Sep-11	0.0 - 0.50	5.42	1.1 U	21.6	422.	1.1 U
	-12-B	12-Sep-11	0.50 - 1.00	2.8	1.14 U	18.	110.	1.14 U
	-12BD	12-Sep-11	0.50 - 1.00	2.4 U	1.2 U	12.6	112.	1.2 U
	-12-C	12-Sep-11	1.0 - 1.50	2.4 U	1.2 U	15.9	58.	1.2 U
	-12-D	29-Sep-11	1.5 - 2.00	2.38 U	na	13.2	6.86	na
	-12-E	29-Sep-11	2.0 - 2.50	2.51 U	na	16.8	6.99	na
-13	-13-A	12-Sep-11	0.0 - 0.50	9.91	1.18 U	32.4	225.	1.18 U
	-13AD	12-Sep-11	0.0 - 0.50	8.65	1.25 U	29.4	275.	1.25 U
	-13-B	12-Sep-11	0.50 - 1.00	2.39 U	1.2 U	20.	107.	1.2 U
	-13-C	12-Sep-11	1.0 - 1.50	2.26 U	1.13 U	18.1	41.3	1.13 U
	-13-D	29-Sep-11	1.5 - 2.00	2.38 U	na	13.	18.3	na
	-13-E	29-Sep-11	2.0 - 2.50	2.32 U	na	13.7	6.05	na

TABLE 7 – Soil and Sediment Analytcial Results - Cripple Creek Trestle

Selected Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	370. [1]	4,300 [1]	460,000 [2]	800 [1]	43,000 [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
-14	-14-A	8-Sep-11	0.0 - 0.50	2.84 U	1.42 U	45.5	19.	1.42 U
	-14-B	8-Sep-11	0.50 - 1.00	2.57 U	1.29 U	51.3	8.76	1.29 U
	-14BD	8-Sep-11	0.50 - 1.00	2.64 U	1.32 U	48.	8.03	1.32 U
	-14-C	8-Sep-11	1.0 - 1.50	2.62 U	1.31 U	45.	7.77	1.31 U
-15	-15-A	8-Sep-11	0.0 - 0.50	2.44 U	1.22 U	58.8	20.5	1.22 U
	-15-B	8-Sep-11	0.50 - 1.00	2.53 U	1.26 U	58.9	31.	1.26 U
	-15-C	8-Sep-11	1.0 - 1.50	2.43 U	1.21 U	60.2	17.	1.21 U
-16	-16-A	8-Sep-11	0.0 - 0.50	2.73 U	1.37 U	67.1	10.8	1.37 U
	-16-B	8-Sep-11	0.50 - 1.00	2.44 U	1.22 U	67.2	9.71	1.22 U
	-16-C	8-Sep-11	1.0 - 1.50	2.49 U	1.24 U	64.1	6.88	1.24 U
-17	-17-A	9-Sep-11	0.0 - 0.50	2.58 U	1.29 U	53.8	13.9	1.29 U
	-17-B	9-Sep-11	0.50 - 1.00	2.47 U	1.23 U	60.9	7.69	1.23 U
	-17-BD	9-Sep-11	0.50 - 1.00	2.56 U	1.28 U	58.4	10.6	1.28 U
	-17-C	9-Sep-11	1.0 - 1.50	2.59 U	1.3 U	59.6	6.62	1.3 U
-18	-18-A	9-Sep-11	0.0 - 0.50	2.7 U	1.35 U	49.6	12.1	1.35 U
	-18-B	9-Sep-11	0.50 - 1.00	2.52 U	1.26 U	56.7	6.75	1.26 U
	-18-C	9-Sep-11	1.0 - 1.50	2.53 U	1.26 U	60.1	6.37	1.26 U
-19	-19-A	9-Sep-11	0.0 - 0.50	2.4 U	1.2 U	26.1	28.2	1.2 U
	-19-B	9-Sep-11	0.50 - 1.00	2.35 U	1.17 U	39.5	5.82	1.17 U
	-19-C	9-Sep-11	1.0 - 1.50	2.19 U	1.1 U	40.1	17.1	1.1 U
-20	-20-A	8-Sep-11	0.0 - 0.50	2.36 U	1.18 U	19.4	26.3	1.18 U
	-20-B	8-Sep-11	0.50 - 1.00	2.38 U	1.19 U	10.3	13.3	1.19 U
	-20-C	8-Sep-11	1.0 - 1.50	2.19 U	1.09 U	17.3	17.3	1.09 U
-21	-21-A	8-Sep-11	0.0 - 0.50	2.63 U	1.32 U	35.4	14.7	1.32 U
	-21-B	8-Sep-11	0.50 - 1.00	2.95 U	1.47 U	36.3	8.09	1.47 U
	-21-C	8-Sep-11	1.0 - 1.50	2.53 U	1.27 U	39.9	9.4	1.27 U
-22	-22-A	8-Sep-11	0.0 - 0.50	2.75 U	1.37 U	59.6	58.5	1.37 U
	-22-B	8-Sep-11	0.50 - 1.00	2.75 U	1.37 U	58.6	22.9	1.37 U
	-22-C	8-Sep-11	1.0 - 1.50	2.56 U	1.28 U	49.4	8.68	1.28 U
-23	-23-A	8-Sep-11	0.0 - 0.50	2.66 U	1.33 U	61.9	8.68	1.33 U
	-23-B	8-Sep-11	0.50 - 1.00	2.53 U	1.27 U	55.	6.35	1.27 U
	-23-C	8-Sep-11	1.0 - 1.50	2.66 U	1.33 U	67.9	7.5	1.33 U
-24	-24-A	12-Sep-11	0.0 - 0.50	2.48 U	1.24 U	55.4	15.6	1.24 U
	-24-B	12-Sep-11	0.50 - 1.00	2.54 U	1.27 U	50.6	10.2	1.27 U
	-24-C	12-Sep-11	1.0 - 1.50	2.61 U	1.3 U	47.7	8.73	1.3 U
-25	-25-A	12-Sep-11	0.0 - 0.50	2.27 U	1.13 U	18.5	38.8	1.13 U
	-25-B	12-Sep-11	0.50 - 1.00	2.19 U	1.09 U	18.7	11.8	1.09 U
	-25-C	12-Sep-11	1.0 - 1.50	2.34 U	1.17 U	14.8	4.77	1.17 U
-26	-26-A	12-Sep-11	0.0 - 0.50	2.41 U	1.21 U	18.8	8.96	1.21 U
	-26-B	12-Sep-11	0.50 - 1.00	2.39 U	1.19 U	18.5	4.72	1.19 U
	-26-C	12-Sep-11	1.0 - 1.50	2.36 U	1.18 U	20.3	4.46	1.18 U
-27	-27-A	8-Sep-11	0.0 - 0.50	2.64 U	1.32 U	33.3	13.6	1.32 U
	-27-B	8-Sep-11	0.50 - 1.00	2.6 U	1.3 U	43.3	21.3	1.3 U
	-27-C	8-Sep-11	1.0 - 1.50	2.51 U	1.26 U	31.1	13.7	1.26 U
-28	-28-A	8-Sep-11	0.0 - 0.50	2.55 U	1.28 U	48.3	14.4	1.28 U
	-28-B	8-Sep-11	0.50 - 1.00	2.41 U	1.21 U	34.1	5.98	1.21 U
	-28-C	8-Sep-11	1.0 - 1.50	2.75 U	1.38 U	42.8	11.2	1.38 U
-29	-29-A	8-Sep-11	0.0 - 0.50	**7.57**	1.14 U	64.7	72.9	1.14 U
	-29-B	8-Sep-11	0.50 - 1.00	2.36 U	1.18 U	55.	11.9	1.18 U
	-29-C	8-Sep-11	1.0 - 1.50	2.64 U	1.32 U	55.6	8.23	1.32 U
-30	-30-A	8-Sep-11	0.0 - 0.50	**19.3**	1.09 U	48.3	405.	1.09 U
	-30-B	8-Sep-11	0.50 - 1.00	**8.56**	1.18 U	47.8	312.	1.18 U
	-30BD	8-Sep-11	0.50 - 1.00	8.67	1.18 U	49.9	447.	1.18 U
	-30-C	8-Sep-11	1.0 - 1.50	6.74	1.33 U	46.1	214.	1.33 U
	-30-D	29-Sep-11	1.5 - 2.00	2.64	na	30.4	101.	na
	-30-E	29-Sep-11	2.0 - 2.50	2.28 U	na	35.7	49.	na
	-30-F	29-Sep-11	2.5 - 3.00	2.51 U	na	46.6	17.9	na
-31	-31-A	8-Sep-11	0.0 - 0.50	**23.3**	1. U	54.5	571.	1. U
	-31-B	8-Sep-11	0.50 - 1.00	2.42 U	1.21 U	17.3	19.5	1.21 U

TABLE 7 – Soil and Sediment Analytcial Results - Cripple Creek Trestle

Selected Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	370. [1]	4,300 [1]	460,000 [2]	800 [1]	43,000 [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
	-31-BD	8-Sep-11	0.50 - 1.00	2.37 U	1.19 U	19.4	15.9	1.19 U
	-31-C	8-Sep-11	1.0 - 1.50	2.45	1.13 U	21.7	21.4	1.13 U
	-31-D	28-Sep-11	1.5 - 2.00	2.34 U	na	20.4	6.66	na
	-31-E	28-Sep-11	2.0 - 2.50	2.46 U	na	21.2	36.9	na
-32	-32-A	9-Sep-11	0.0 - 0.50	**16.9**	1.09 U	43.6	183.	1.09 U
	-32-B	9-Sep-11	0.50 - 1.00	2.48 U	1.24 U	24.9	233.	1.24 U
	-32-C	9-Sep-11	1.0 - 1.50	3.21	1.13 U	29.4	91.1	1.13 U
	-32-D	30-Sep-11	1.5 - 2.00	2.38 U	na	19.7	28.3	na
	-32-E	30-Sep-11	2.0 - 2.50	2.29 U	na	19.9	41.8	na
	-32-F	30-Sep-11	2.5 - 3.00	2.19 U	na	20.5	17.	na
	-32-FD	30-Sep-11	2.5 - 3.00	2.28 U	na	26.4	19.4	na
-33	-33-A	9-Sep-11	0.0 - 0.50	**14.3**	1.11 U	67.5	230.	1.11 U
	-33-B	9-Sep-11	0.50 - 1.00	10.	1.17 U	66.	110.	1.17 U
	-33-C	9-Sep-11	1.0 - 1.50	2.36 U	1.18 U	60.3	89.6	1.18 U
	-33-D	30-Sep-11	1.5 - 2.00	2.61 U	na	30.8	48.5	na
	-33-E	30-Sep-11	2.0 - 2.50	2.49 U	na	34.6	19.5	na
	-33-ED	30-Sep-11	2.0 - 2.50	2.63 U	na	32.7	14.6	na
-34	-34-A	9-Sep-11	0.0 - 0.50	2.44 U	1.22 U	27.8	29.8	1.22 U
	-34-AD	9-Sep-11	0.0 - 0.50	2.57 U	1.28 U	64.6	70.6	1.28 U
	-34-B	9-Sep-11	0.50 - 1.00	2.59 U	1.29 U	67.6	12.5	1.29 U
	-34-C	9-Sep-11	1.0 - 1.50	2.57 U	1.29 U	64.5	15.2	1.29 U
-35	-35-A	8-Sep-11	0.0 - 0.50	2.55 U	1.28 U	54.4	13.9	1.28 U
	-35-B	8-Sep-11	0.50 - 1.00	2.4 U	1.2 U	38.	6.27	1.2 U
	-35-C	8-Sep-11	1.0 - 1.50	2.44 U	1.22 U	41.5	5.76	1.22 U
-36	-36-A	8-Sep-11	0.0 - 0.50	2.54 U	1.27 U	30.7	48.9	1.27 U
	-36-B	8-Sep-11	0.50 - 1.00	2.21 U	1.1 U	28.2	31.2	1.1 U
	-36-C	8-Sep-11	1.0 - 1.50	2.32 U	1.16 U	34.5	26.7	1.16 U
	-36-D	29-Sep-11	1.5 - 2.00	2.46 U	na	35.4	5.75	na
-37	-37-A	8-Sep-11	0.0 - 0.50	2.67 U	1.34 U	14.9	50.	1.34 U
	-37-B	8-Sep-11	0.50 - 1.00	2.33 U	1.16 U	10.9	7.68	1.16 U
	-37-C	8-Sep-11	1.0 - 1.50	2.25 U	1.12 U	21.	15.7	1.12 U
-38	-38-A	7-Sep-11	0.0 - 0.50	2.3 U	1.15 U	16.9	48.9	1.15 U
	-38-B	7-Sep-11	0.50 - 1.00	2.3 U	1.15 U	42.	16.4	1.15 U
	-38-C	7-Sep-11	1.0 - 1.50	2.36 U	1.18 U	33.2	7.52	1.18 U
-39	-39-A	7-Sep-11	0.0 - 0.50	2.36 U	1.18 U	41.	10.9	1.18 U
	-39-B	7-Sep-11	0.50 - 1.00	2.53 U	1.27 U	54.6	8.89	1.27 U
	-39-C	7-Sep-11	1.0 - 1.50	2.65 U	1.32 U	50.1	6.76	1.32 U
-40	-40-A	8-Sep-11	0.0 - 0.50	2.5 U	1.25 U	49.6	12.1	1.25 U
	-40-AD	8-Sep-11	0.0 - 0.50	2.63 U	1.32 U	53.7	14.9	1.32 U
	-40-B	8-Sep-11	0.50 - 1.00	2.61 U	1.31 U	54.4	7.6	1.31 U
	-40-C	8-Sep-11	1.0 - 1.50	2.67 U	1.33 U	56.6	7.03	1.33 U
-41	-41-A	8-Sep-11	0.0 - 0.50	2.55 U	1.27 U	60.3	9.45	1.27 U
	-41-B	8-Sep-11	0.50 - 1.00	2.4 U	1.2 U	55.4	6.13	1.2 U
	-41-C	8-Sep-11	1.0 - 1.50	2.36 U	1.18 U	58.1	6.76	1.18 U
-42	-42-A	8-Sep-11	0.0 - 0.50	2.22 U	1.11 U	14.4	42.1	1.11 U
-43	-43-A	7-Sep-11	0.0 - 0.50	2.5 U	1.25 U	19.8	6.9	1.25 U
	-43-AD	7-Sep-11	0.0 - 0.50	2.63 U	1.26 U	44.1	6.81	1.26 U
	-43-B	7-Sep-11	0.50 - 1.00	2.63 U	1.32 U	28.5	6.82	1.32 U
	-43-C	7-Sep-11	1.00 - 1.50	2.56 U	1.28 U	30.9	6.49	1.28 U
-44	-44-A	7-Sep-11	0.0 - 0.50	2.35 U	1.17 U	38.9	6.55	1.17 U
	-44-B	7-Sep-11	0.50 - 1.00	2.44 U	1.22 U	54.7	6.81	1.22 U
	-44-C	7-Sep-11	1.0 - 1.50	2.49 U	1.25 U	54.5	6.79	1.25 U
-45S	-45S	12-Sep-11	0.0 - 0.50	2.31 U	1.16 U	5.41	2.24	1.16 U
-46S	-46S	12-Sep-11	0.0 - 0.50	2.11 U	1.05 U	7.65	2.47	1.05 U
-47S	-47S	12-Sep-11	0.0 - 0.50	2.83 U	1.41 U	8.46	3.31	1.41 U
	-47SD	12-Sep-11	0.0 - 0.50	2.34 U	1.17 U	7.99	2.49	1.17 U
-48S	-48S	12-Sep-11	0.0 - 0.50	2.87 U	1.44 U	10.7	2.63	1.44 U

TABLE 7 – Soil and Sediment Analytcial Results - Cripple Creek Trestle

Selected Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium	Lead	Silver
Human Health: Excavation Worker ==>	370. [1]	4,300 [1]	460,000 [2]	800 [1]	43,000 [2a]
Default Naturally-Occurring Background Level ==>	11 [3]	1 [3]	73.07 [3]	17 [3]	1 [3]
Hot Spot Concentraion-Human Health ==>	na	na	na	na	na

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
-49S	-49S	12-Sep-11	0.0 - 0.50	2.62 U	1.31 U	11.6	4.24	1.31 U
-50	-50-A	29-Sep-11	0.0 - 0.50	2.37 U	na	10.6	41.2	na
	-50-B	29-Sep-11	0.5 - 1.00	2.41 U	na	11.2	28.2	na
	-50C	29-Sep-11	1.0 - 1.50	2.27 U	na	12.4	6.81	na
-51	-51-A	29-Sep-11	0.0 - 0.50	2.25 U	na	9.78	27.2	na
	-51-B	29-Sep-11	0.5 - 1.00	2.32 U	na	19.7	7.46	na
-52	-52-A	29-Sep-11	0.0 - 0.50	2.67 U	na	33.8	18.6	na
	-52-B	29-Sep-11	0.5 - 1.00	2.72 U	na	39.7	13.7	na
-53	-53-A	29-Sep-11	0.0 - 0.50	2.62 U	na	19.2	21.3	na
	-53-B	29-Sep-11	0.5 - 1.00	2.47 U	na	49.9	16.8	na
-54	-54-A	30-Sep-11	0.0 - 0.50	2.54 U	na	37.8	14.1	na
-55	-55-A	30-Sep-11	0.0 - 0.50	2.46 U	na	39.4	26.9	na
	-55AD	30-Sep-11	0.0 - 0.50	2.64 U	na	41.	21.6	na
	-55-B	30-Sep-11	0.5 - 1.00	2.38 U	na	36.1	8.15	na
	-55C	30-Sep-11	1.0 - 1.50	2.7 U	na	56.1	7.88	na
-56	-56-A	29-Sep-11	0.0 - 0.50	2.38 U	na	16.9	9.77	na
RW-1	-RW-01-A	9-Sep-11	0.0 - 0.50	2.3 U	1.15 U	35.3	10.9	1.15 U
	-RW01-B	9-Sep-11	0.50 - 1.00	2.1 U	1.05 U	26.6	6.1	1.05 U
	-RW01-C	9-Sep-11	1.0 - 1.50	2.4 U	1.2 U	26.	6.21	1.2 U
RW-2	-RW-02-A	9-Sep-11	0.0 - 0.50	2.21 U	1.1 U	37.1	28.3	1.1 U
	-RW02-B	9-Sep-11	0.50 - 1.00	2.23 U	1.12 U	34.5	7.19	1.12 U
	-RW02-C	9-Sep-11	1.0 - 1.50	2.2 U	1.1 U	33.5	6.41	1.1 U
RW-3	-RW-03-A	9-Sep-11	0.0 - 0.50	24.6	1.24 U	41.7	60.2	1.24 U
	-RW03-B	9-Sep-11	0.50 - 1.00	2.51 U	1.26 U	25.7	36.4	1.26 U
	-RW03-BD	9-Sep-11	0.50 - 1.00	2.27 U	1.14 U	25.1	33.5	1.14 U
	-RW03-C	9-Sep-11	1.0 - 1.50	2.6 U	1.3 U	16.3	11.5	1.3 U
RW-4	-RW-04-A	9-Sep-11	0.0 - 0.50	2.31 U	1.15 U	50.9	28.8	1.15 U
	-RW04-B	9-Sep-11	0.50 - 1.00	2.4 U	1.2 U	23.8	10.4	1.2 U
	-RW04-C	9-Sep-11	1.0 - 1.50	2.24 U	1.12 U	20.7	8.26	1.12 U

1 = DEQ Risk-Based Concentrations (RBCs) for Excavation Worker exposure scenario (Revised June 7, 2012).
2 = The May 2012 site investigation report demonstrated the soil consists of 99% chromium III, therefore the chromium III screening values are applied.
2a = Environmental Protection Agency Regional Screening Levels for industrial soil, May 2013
3 = DEQ, Background Metals Report, Oregon Background Metals Evaluation, By GeoEngineers, June 30, 2010

Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
SW - Surface Water
RW-Rock Wall

mg/kg = milligrams/kilogram
na = no analysis
nc = no criteria

ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE 8 – Surface Water Analytical Results - Cripple Creek Trestle

Reference Levels in ug/L (ppb)	Chromium	Lead	TSS
DEQ 2004 AWQC (Chronic) ==>	11.	0.54	NV

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Date	Sample Depth (feet bgs)	Chromium	Lead	TSS
SW-1	27-Sep-11	n/a	2.00 U	1.00 U	5 U
SW-2	27-Sep-11	n/a	2.00 U	1.00 U	5 U

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
AWQC = Ambient Water Quality Criteria
SW - Surface Water
ppb = parts per billion
U = not detected above concentration indicated
NV = No screen value

TABLE 9
Federal ARARs
Oak Grove Hydroelectric Project Water Conveyance Trestles

ARAR	Citation	Summary
Federal Applicable Requirements		
Endangered Species Act	16. USC §§1531 et. seq.	Federal agencies must ensure that actions they authorize, fund or carry out are not likely to adversely modify or destroy critical habitat of endangered or threatened species. Actions authorized, funded or carried out by federal agencies may not jeopardize the continued existence of endangered or threatened species as well as adversely modify or destroy their critical habitats.
Hazardous Materials Transportation Act	49 USC Ap. §§1801 et. seq.	
U.S. Department of Transportation – Subchapter C – Hazardous Materials Regulations	40 CFR Parts 171-177	Regulations provide for packaging, documentation, and transportation of hazardous waste.
Migratory Bird Act	16 U.S.C. §§703-712 and 50 CFR §10.12	Makes it unlawful to take, import, export, possess, buy, sell, purchase, or barter any migratory bird. "Take" is defined as pursuing, hunting, shooting, poisoning, wounding, killing, capturing, trapping and collecting.
Resource Conservation and Recovery Act (RCRA)	42 USC Section §§6901 et. seq.	
Hazardous waste management	40 CFR Parts 264 & 268 (adopted by reference in OAR §340-100-0002(1))	RCRA is intended to protect human health and the environment from the hazards posed by waste disposal and management as well as reduces the production of wastes. Portions of RCRA concerning hazardous wastes are most relevant to this site. Oregon's program for hazardous waste management is authorized under RCRA. Most of the requirements that are potential ARARs are federal rules that have been adopted by reference under Oregon's regulation.

TABLE 9
Federal ARARs
Oak Grove Hydroelectric Project Water Conveyance Trestles

ARAR	Citation	Summary
Occupation Safety and Health Act (OSHA)	29 USC §§653, 655, 657;	
U.S. Department of Labor Occupation Safety & Health Administration	29 CFR 1910, 1926 (adopted by reference in OAR 437, Division 1 and 3	OSHA sets standards to protect workers from exposures to work place hazards. It sets standards for general industry with includes regulating exposures to hazardous substances in the work place and also establishes safety standards for construction sites.
Federal Relevant and Appropriate Requirements		
None		

TABLE 10
State ARARs
Oak Grove Hydroelectric Project Water Conveyance Trestles

ARAR	Summary	Comment
State Applicable Requirements		
Oregon Environmental Cleanup Act (ORS 465-200 et. Seq.)		
Standards for Degree of Cleanup Required (ORS 465.315)	Establishes acceptable risk level to protect human (cancer 1x10-6; HI = 1) and ecological (per individual T&E or population of others) receptors. Requires risk assessment. IDs cleanup methods and evaluates remedial measures for effectiveness, implementability, long term reliability, short term implementability risk, and cost reasonableness. Evaluates treatment of hot spots to higher threshold of cost reasonableness. Exemption allowed for onsite removal or remedial actions from hazardous and solid waste, water and air quality requirements if human health and environment are protected. State and local permits, licenses and authorizations exempted but substantive requirements must be met.	Potentially relevant to investigations, risk assessment, and remediation goals and methods. Can overlap or be inconsistent with EPA guidance and policy on Superfund Cleanup. Generally EPA will be followed unless State regulations go beyond or are more stringent than federal law and regulations then State regulations become ARARs.
Selection or Approval of the Remedial Action (OAR 340-122-090)	Criteria for selection of remedial action: effectiveness, long-term reliability, implementability, risk and cost.	Relevant to evaluation and selection of remedial alternatives and potentially relevant for Superfund sites.
Standards for Application of the Remedial Action Risk Based Screening Levels (OAR 340-122-040)	Sets hazardous substance remedial action levels and requirements.	Relevant to evaluation and selection of cleanup levels and remedial alternatives.

TABLE 10
State ARARs
Oak Grove Hydroelectric Project Water Conveyance Trestles

ARAR	Summary	Comment
Solid Waste		
Oregon Solid Waste Management (ORS 459 and OAR 340-093 and 340-095)	This statute and implementing rules govern the management of solid wastes, including the permitting of disposal sites.	Applicable to the on-site and off-site management and disposal of contaminated soil, groundwater and dredged sediments.
Hazardous Waste		
Oregon Hazardous Waste Management Act (ORS 466.005 *et seq.* and OAR 340-100 through 340-113)	Oregon management of hazardous waste is authorized in the Oregon Hazardous Waste Management Act (ORS 466.005 *et deq.*).	
Environmental Receptors		
Threatened or Endangered Wildlife Species (ORS 496.171-192)	Sets forth standards for the State Fish and Wildlife Commission to list species as threatened or endangered; authorizes the Commission to enact regulations necessary to ensure survival of listed species, such as protecting habitat; expressly provides that this regulation does not, by itself, require an owner of private land to take action to protect an endangered or threatened species.	These provisions do not themselves contain substantive requirements to constitute ARARs but the listed species might be different than under ESA.
Worker Safety		
Oregon Occupational Safety and Health Code (OAR 347)	Analogous to the federal Occupational Safety and Health Administration codes and contains health and safety requirement that must be met during implementation of any remedial action. These standards are intended to protect construction and utility workers at the	Relevant for site remedial actions and may be relevant for some investigative activities.

TABLE 10
State ARARs
Oak Grove Hydroelectric Project Water Conveyance Trestles

ARAR	Summary	Comment
	site.	
Oregon Occupational Safety and Health Code (OAR 437)	Contains health and safety training requirements for on-site workers and permissible exposure limits for conducting work at a site.	Relevant for site remedial actions and construction activities. May be relevant for some investigative activities.
State Relevant and Appropriate Requirements		
None		

TABLE 11
Removal Alternative Analysis
Oak Grove Hydroelectric Project Water Conveyance Trestles

Evaluation Criteria	Evaluation Subcriteria	Alternatives		
		Alternative 1 – Cap Soils In-Place and Institutional Controls	**Alternative 2 – Excavation and Off-Site Disposal**	**Alternative 3 – No Action**
Effectiveness	Protectiveness • Protective of public health and community • Protective of workers during implementation • Protective of environment • Complies with ARARs	Engineering controls in the form of a cap and institutional controls would be protective of human health and the community; alternative would allow for restricted site use. Standard health and safety procedures would protect workers during soil capping and construction. Risks to community are minimal. Implementing alternative in dry season, re-vegetating removal area, will control environmental impacts. Removal action objectives should be achieved in 3 to 4 weeks. Engineering controls in the form of a soil cap would significantly reduce risks to ecological receptors. Alternative would be effective in reducing magnitude of overall risk to acceptable levels. Cap would require regular inspection and maintenance to ensure long-term reliability, particularly given steep slope of hillside. Alternative would not reduce volume or toxicity but will reduce mobility through capping. Alternative would comply with ARARs. Alternative would comply with Oregon Cleanup Law requirements to reduce human health and ecological risks to acceptable levels by eliminating or reducing exposure potential. Alternative would comply with CERCLA preference for treatment.	Alternative would be protective of human health and the community; alternative would allow for restricted site use, for example excavation workers and recreation users. Standard health and safety procedures would protect workers during soil excavation, soil handling, and drop box loading. Risks to community are minimal. Environmental impacts will be controlled by implementing alternative in dry season, implementing erosion controls, and re-vegetating removal area. Removal action objectives should be achieved in 4 to 6 weeks. Alternative would be protective of the environment. Alternative would be effective in reducing magnitude of overall risk to acceptable levels. Alternative would reduce volume through the removal of low threat materials, and reduce toxicity by reducing constituent concentrations below risk-based levels. Alternative would comply with Oregon Cleanup Law requirements to reduce human health and ecological risks to acceptable levels by reducing constituent concentrations below relevant screening levels. Alternative would comply with CERCLA preference for treatment.	Alternative would not provide any additional protection of human health and the environment; alternative would not allow for unrestricted site use. No health and safety procedures would be required. There would be no risks to the community or environmental impacts during implementation. Alternative would not meet removal action objectives. Alternative would not reduce magnitude of overall risk to acceptable levels. Alternative would not comply with Oregon Cleanup Law requirements to reduce human health and ecological risks to acceptable levels by eliminating or reducing exposure potential, and treat hot spots to the extent practical. Alternative would not comply with CERCLA preference for treatment.
Effectiveness	Ability to Achieve Removal Objectives • Level of treatment or containment expected	Alternative will achieve removal action objectives through containment of soils containing constituent concentrations above screening levels. Soils containing residual concentrations would be left in	Alternative will achieve removal action objectives through removal of soils containing constituent concentrations above screening levels. Alternative would reduce volume through the removal	Alternative will not achieve removal action objectives. Soils containing metals would be left in place. Alternative would not reduce toxicity, mobility or

TABLE 11
Removal Alternative Analysis
Oak Grove Hydroelectric Project Water Conveyance Trestles

Evaluation Criteria	Evaluation Subcriteria	Alternatives		
		Alternative 1 – Cap Soils In-Place and Institutional Controls	**Alternative 2 – Excavation and Off-Site Disposal**	**Alternative 3 – No Action**
	• No residual effect concerns • Will maintain control until long-term solution implemented	place. Alternative would not reduce volume but would reduce mobility through capping. Alternative is intended to be the long-term solution.	of low threat materials, and reduce toxicity by reducing constituent concentrations below risk-based levels. Alternative is intended to be the long-term solution.	volume.
Implementability	Technical Feasibility • Construction and operational considerations • Demonstrated performance and useful life • Adaptable to environmental conditions • Contributes to remedial performance • Can be implemented in one year	Construction would be completed using manual labor and hand tools. Cap can be constructed on steep hillside, but will require frequent inspection and periodic maintenance over its life. Alternative contributes to remedial performance; alternative is intended to be the long-term solution. Alternative can be implemented in one year.	Construction would involve the use of proven, conventional equipment and labor. Alternative is not adaptable to environmental conditions; presence of rock or fractured bedrock may make it technically infeasible to remove soil containing constituent concentrations above risk-based screening levels. Alternative contributes to remedial performance; alternative is intended to be the long-term solution. Alternative can be implemented in one year.	Alternative does not include any construction-related activities. Alternative does not contribute to remedial performance. Alternative can be implemented immediately.
Implementability	Availability • Equipment • Personnel and services • Outside laboratory testing capacity • Off-site treatment and disposal capacity	The alternative involves the use of readily available equipment, personnel and services.	Alternative involves the use of readily available equipment, personnel and services. Outside laboratory testing capacity and off-site treatment and disposal capacity are sufficient given the scope of the removal action.	Alternative does not depend on availability of equipment, personnel and services, outside laboratories, or off-site treatment and disposal facilities.
Implementability	Administrative Feasibility • Permits required • Easements or right-of-ways required • Impact to adjoining property • Ability to impose institutional controls	No permits, easements or right-of-ways are required to implement the alternative. [1] Alternative will not impact adjoining property. PGE has ability to impose institutional controls during duration of its Forest Service lease.	No permits, easements or right-of-ways are required to implement the alternative.[1] Alternative will not impact adjoining property. Alternative does not require institutional controls.	No permits, easements or right-of-ways are required to implement the alternative. [1] Alternative will not impact adjoining property.

TABLE 11
Removal Alternative Analysis
Oak Grove Hydroelectric Project Water Conveyance Trestles

Evaluation Criteria	Evaluation Subcriteria	Alternatives		
		Alternative 1 – Cap Soils In-Place and Institutional Controls	**Alternative 2 – Excavation and Off-Site Disposal**	**Alternative 3 – No Action**
Cost	Capital cost	$459,960 (rounded)	$584,000 (rounded)	$0
	Post-removal site control cost	$71,352 (rounded)	$0	$0
	Present worth cost	$531,312 (rounded)	$584,000 (rounded)	$0

[1] PGE reviewed permit applicability regulations under the Clean Air Act, Clean Water Act, Endangered Species Act, and Resource Conservation and Recovery Act.

TABLE 12

Alternative 1 - Cap-In-Place and Institutional Controls

Oak Grove Hydroelectric Project Water Conveyance Facility

Cost Summary

(Net Present Value Costs)

PRESENT VALUE	INVESTIGATION AND REMEDIATION ACTIVITY
	Soil
$459,960	**Remedy Cost**
$280,576	61% Canyon
$179,384	39% Pint
$71,352	**O&M Cost (30 years)**
$43,525	61% Canyon
$27,827	39% Pint
$531,312	**Total Cost**
	45/55 Split Based on Volumes
$324,100	**Canyon Creek**
$207,212	**Pint Creek**

TABLE 12

Alternative 1 - Cap-In-Place and Institutional Controls

Oak Grove Hydroelectric Project Water Conveyance Facility

Estimated Detailed Cost
Soils
(Costs in 2013 Dollars)

Cost Item	Quantity	Units	Unit Cost	Allowance	Total Cost	Source
REMEDY						
Institutional Controls						
Land Status Record Notation	1	LS	$10,000	0%	$10,000	Professional Judgement
Subtotal					$10,000	
Soil Capping and Restoration						
Scope: 24 total days. 11 days on and 3 days off, 10 hour days						
Project Manager	60	hours	$85	0%	$5,100	Clearwater Environmental, Inc.
Site Supervisor/H&S Manager	90	hours	$60	0%	$5,400	Clearwater Environmental, Inc.
Laborers (12)	2,160	hours	$50	0%	$108,000	Clearwater Environmental, Inc.
Equipment (Conveyors, Trucks, Skid Steer, etc.)	1	LS	$150,000	0%	$150,000	Clearwater Environmental, Inc.
Materials (PPE, Fall Protection, etc.)	1	LS	$30,000	0%	$30,000	Clearwater Environmental, Inc.
Services (Wash Station, Shower, Sanicans, Logding, Food)	1	LS	$45,000	0%	$37,000	Clearwater Environmental, Inc.
Consultant fees, site visits, meetings, Report	120	hours	$135	0%	$16,200	Clearwater Environmental, Inc.
Subtotal					$351,700	
Verification Sampling						
Field geologist	60	hours	$85	0%	$5,100	Professional judgement
Laboratory analysis	0	sample	$35	0%	$0	Professional judgement
Subtotal					$5,100	
Top Soil Transportation and Handling						
Transport and Land disposal at Hillsboro	200	ton	$40	0%	$8,000	Clearwater Environmental, Inc.
Subtotal					$8,000	
Site Restoration						
Revegetation	1	LS	$5,000	0%	$5,000	Professional judgement
Erosion controls	1	LS	$3,500	0%	$3,500	Professional judgement
Subtotal					$8,500	
Soil Remedy Subtotal					$383,300	
Contingency			20%		$76,660	
Total Soil Remedy Cost					$459,960	
OPERATION & MAINTENANCE						
Cap Inspection and Maintenance						
Inspection	1	Annual	$2,000	0%	$2,000	Professional judgement
Maintenance	1	5 year	$15,000	0%	$3,000	Professional judgement
Subtotal					$5,000	
O&M Subtotal					$5,000	
Contingency			15%		$750	
Total O&M Cost					$5,750	

TABLE 12

Alternative 1 - Cap-In-Place and Institutional Controls

Oak Grove Hydroelectric Project Water Conveyance Facility

Future Cost Summary

(Costs in 2013 Dollars)

	Soils		
Year	Remedy Cost	O&M Cost	**Constant Dollar Future Cost (2009 Dollars)**
2013	$459,960		$459,960
2014		$5,750	$5,750
2015		$5,750	$5,750
2016		$5,750	$5,750
2017		$5,750	$5,750
2018		$5,750	$5,750
2019		$5,750	$5,750
2020		$5,750	$5,750
2021		$5,750	$5,750
2022		$5,750	$5,750
2023		$5,750	$5,750
2024		$5,750	$5,750
2025		$5,750	$5,750
2026		$5,750	$5,750
2027		$5,750	$5,750
2028		$5,750	$5,750
2029		$5,750	$5,750
2030		$5,750	$5,750
2031		$5,750	$5,750
2032		$5,750	$5,750
2033		$5,750	$5,750
2034		$5,750	$5,750
2035		$5,750	$5,750
2036		$5,750	$5,750
2037		$5,750	$5,750
2038		$5,750	$5,750
2039		$5,750	$5,750
2040		$5,750	$5,750
2041		$5,750	$5,750
2042		$5,750	$5,750
2043		$5,750	$5,750
2044			$0
2045			$0
Subtotals	$459,960	$172,500	$632,460

TABLE 13

Alternative 2 - Excavation and Off-Site Disposal

Oak Grove Hydroelectric Project Water Conveyance Facility

Cost Summary

(Net Present Value Costs)

PRESENT VALUE	INVESTIGATION AND REMEDIATION ACTIVITY
	Soil
$584,010	**Remedy Cost**
$356,246	61% Canyon Creek
$227,764	39% Pint Creek
$0	O&M Cost
$0	61% Canyon Creek
$0	39% Pint Creek
$584,010	**Total Cost**

TABLE 13

Alternative 2 - Excavation and Off-Site Disposal

Oak Grove Hydroelectric Project Water Conveyance Facility

Estimated Detailed Cost
Soils
(Costs in 2013 Dollars)

Cost Item	Quantity	Units	Unit Cost	Allowance	Total Cost	Source
REMEDY						
Institutional Controls						
Not Applicable	0	LS	$8,000	0%	$0	Professional Judgement
Subtotal					$0	
Soil Excavation and Restoration						
Scope: 48 total days. 11 days on and 3 days off, 10 hour days						
Project Manager	175	hours	$85	0%	$14,875	Clearwater Environmental, Inc.
Site Supervisor/H&S Manager	340	hours	$60	0%	$20,400	Clearwater Environmental, Inc.
Laborers (12)	3,900	hours	$50	0%	$195,000	Clearwater Environmental, Inc.
Equipment (Conveyors, Trucks, Skid Steer, etc.)	1	LS	$105,000	0%	$105,000	Clearwater Environmental, Inc.
Materials (PPE, Fall Protection, etc.)	1	LS	$45,000	0%	$45,000	Clearwater Environmental, Inc.
Services (Wash Station, Shower, Sanicans, Logding, Food)	1	LS	$65,000	0%	$44,600	Clearwater Environmental, Inc.
Consultant fees, oversight/samping, meetings, Report	160	hours	$135	0%	$21,600	Clearwater Environmental, Inc.
Subtotal					$446,475	
Verification Sampling						
Field geologist	200	hours	$85	0%	$17,000	Professional judgement
Laboratory analysis	80	sample	$35	0%	$2,800	Professional judgement
Subtotal					$19,800	
Soil Transportation and Disposal						
Transport and Land disposal at Hillsboro	136	ton	$150	0%	$20,400	Clearwater Environmental, Inc.
Subtotal					$20,400	
Site Restoration						
Revegetation (included in labor and mateirals above)	1	LS	$0	0%	$0	Professional judgement
Erosion controls (included in labor and materials above)	1	LS	$0	0%	$0	Professional judgement
Subtotal					$0	
Soil Remedy Subtotal					$486,675	
Contingency			20%		$97,335	
Total Soil Remedy Cost					$584,010	
OPERATION & MAINTENANCE						
Cap Inspection and Maintenance						
Inspection	0	Annual	$2,000	0%	$0	Professional judgement
Maintenance	0	5 year	$15,000	0%	$0	Professional judgement
Subtotal					$0	
O&M Subtotal					$0	
Contingency			15%		$0	
Total O&M Cost					$0	

TABLE 13

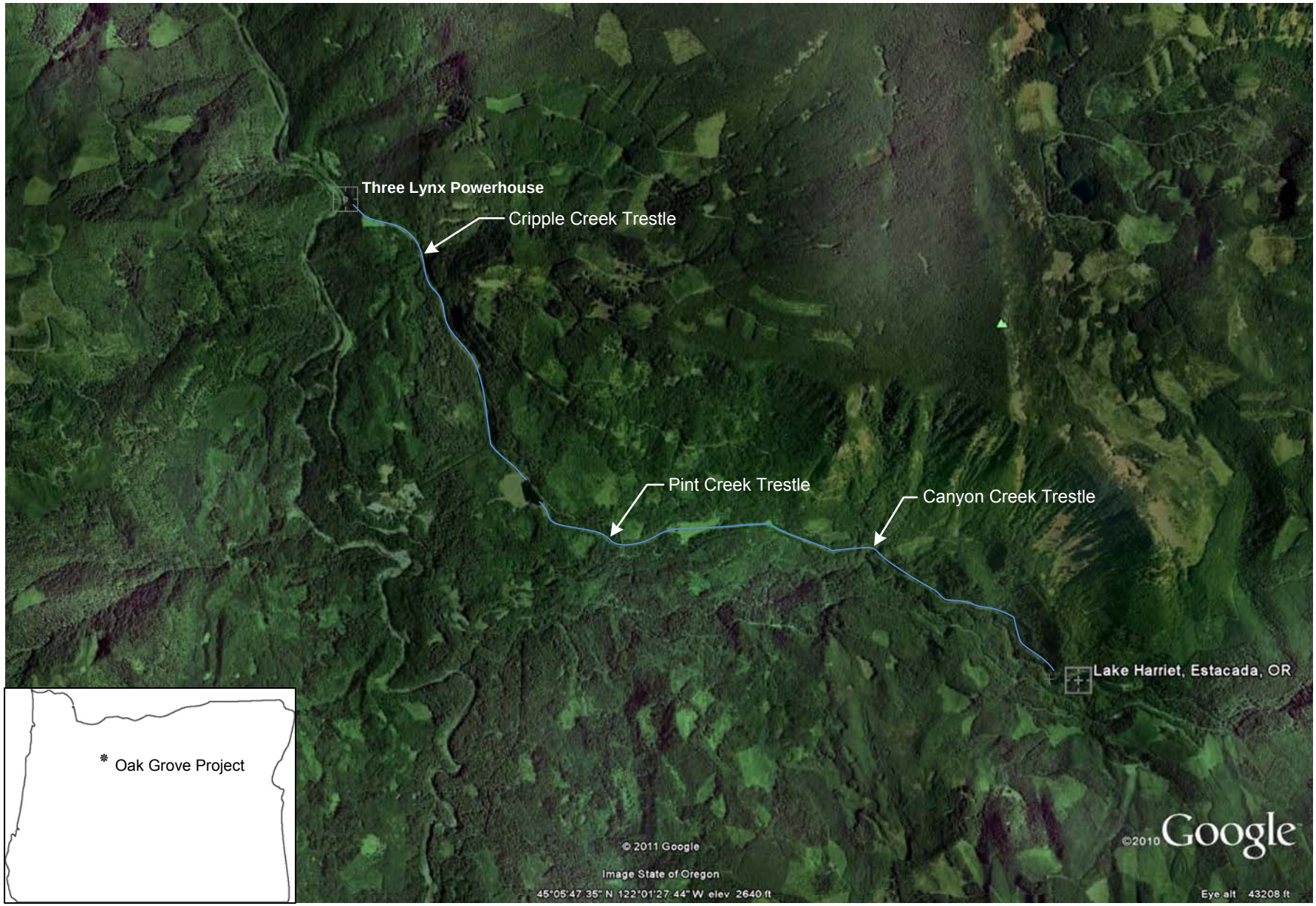
Alternative 2 - Excavation and Off-Site Disposal

Oak Grove Hydroelectric Project Water Conveyance Facility

Future Cost Summary
(Costs in 2013 Dollars)

	Soils		
Year	Remedy Cost	O&M Cost	**Constant Dollar Future Cost (2009 Dollars)**
2013	$584,010		$584,010
2014		$0	$0
2015		$0	$0
2016		$0	$0
2017		$0	$0
2018		$0	$0
2019		$0	$0
2020		$0	$0
2021		$0	$0
2022		$0	$0
2023		$0	$0
2024		$0	$0
2025		$0	$0
2026		$0	$0
2027		$0	$0
2028		$0	$0
2029		$0	$0
2030		$0	$0
2031		$0	$0
2032		$0	$0
2033		$0	$0
2034		$0	$0
2035		$0	$0
2036		$0	$0
2037		$0	$0
2038		$0	$0
2039		$0	$0
2040		$0	$0
2041		$0	$0
2042		$0	$0
2043		$0	$0
2044			$0
2045			$0
Subtotals	$584,010	$0	$584,010

Figures



N

1 mile
Approx. Scale

Figure 1
Trestles Site Vicinity
Oak Grove Hydroelectric Project

BRIDGEWATER GROUP, INC.

C:\Users\Aaron Leritz\Documents\PGE\Trestles\Oak Grove Conyance ROW.vsd

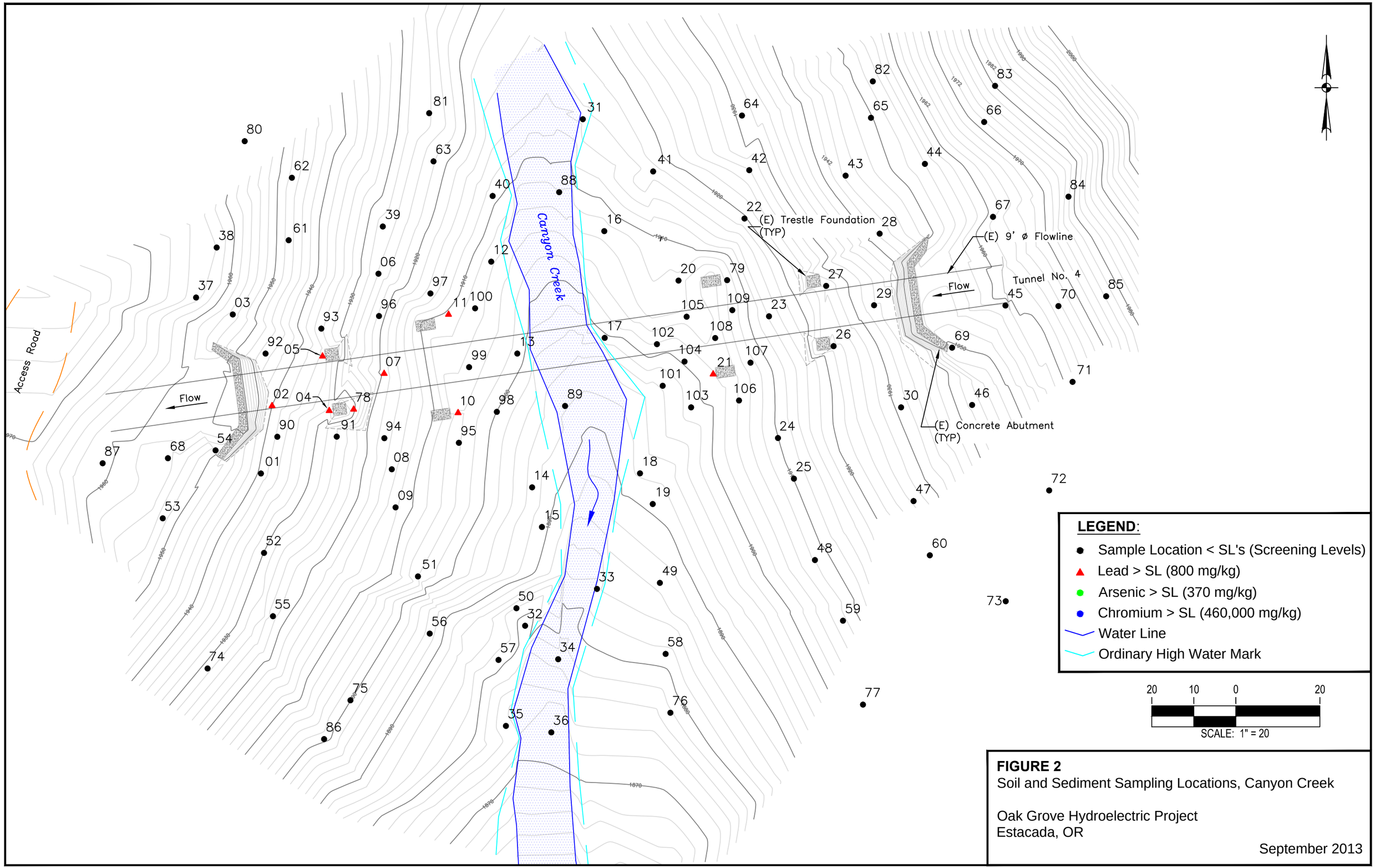


FIGURE 2
Soil and Sediment Sampling Locations, Canyon Creek

Oak Grove Hydroelectric Project
Estacada, OR

September 2013

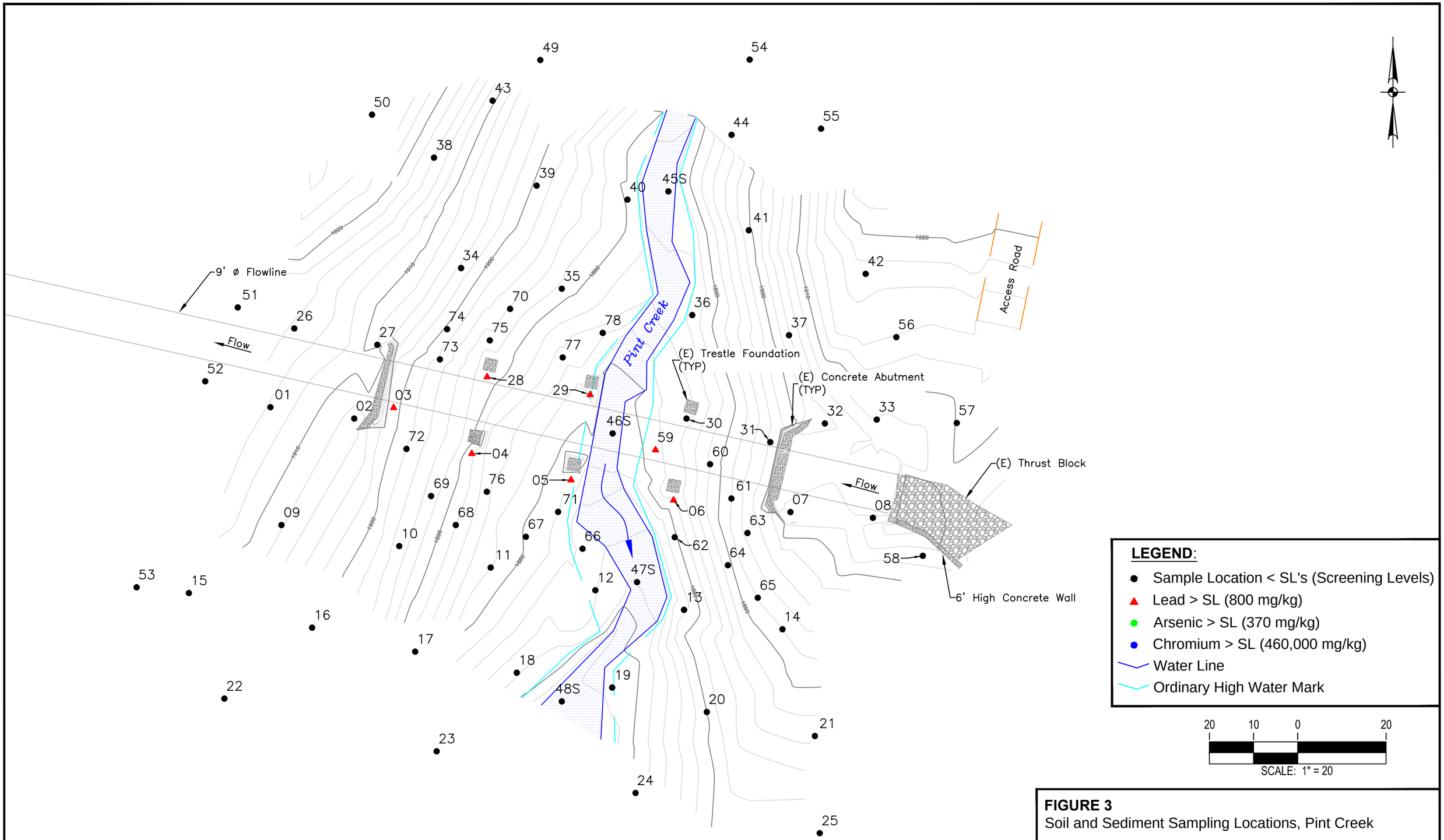


FIGURE 3
Soil and Sediment Sampling Locations, Pint Creek

Oak Grove Hydroelectric Project
Estacada, OR

September 2013

Approximate Scale

100 ft.

Approximate Location Of Pint Creek

N

Figure 4
Downstream Sediment and Water
Sample Location - Print Creek
Oak Grove Hydroelectric Project

BRIDGEWATER GROUP, INC.

C:\Users\Aaron Leritz\Documents\PGE\Trestles\Site Investigation\03 - May 31, 2012 update\Figure 04 Pint Creek Sed & Water Sample.vsd

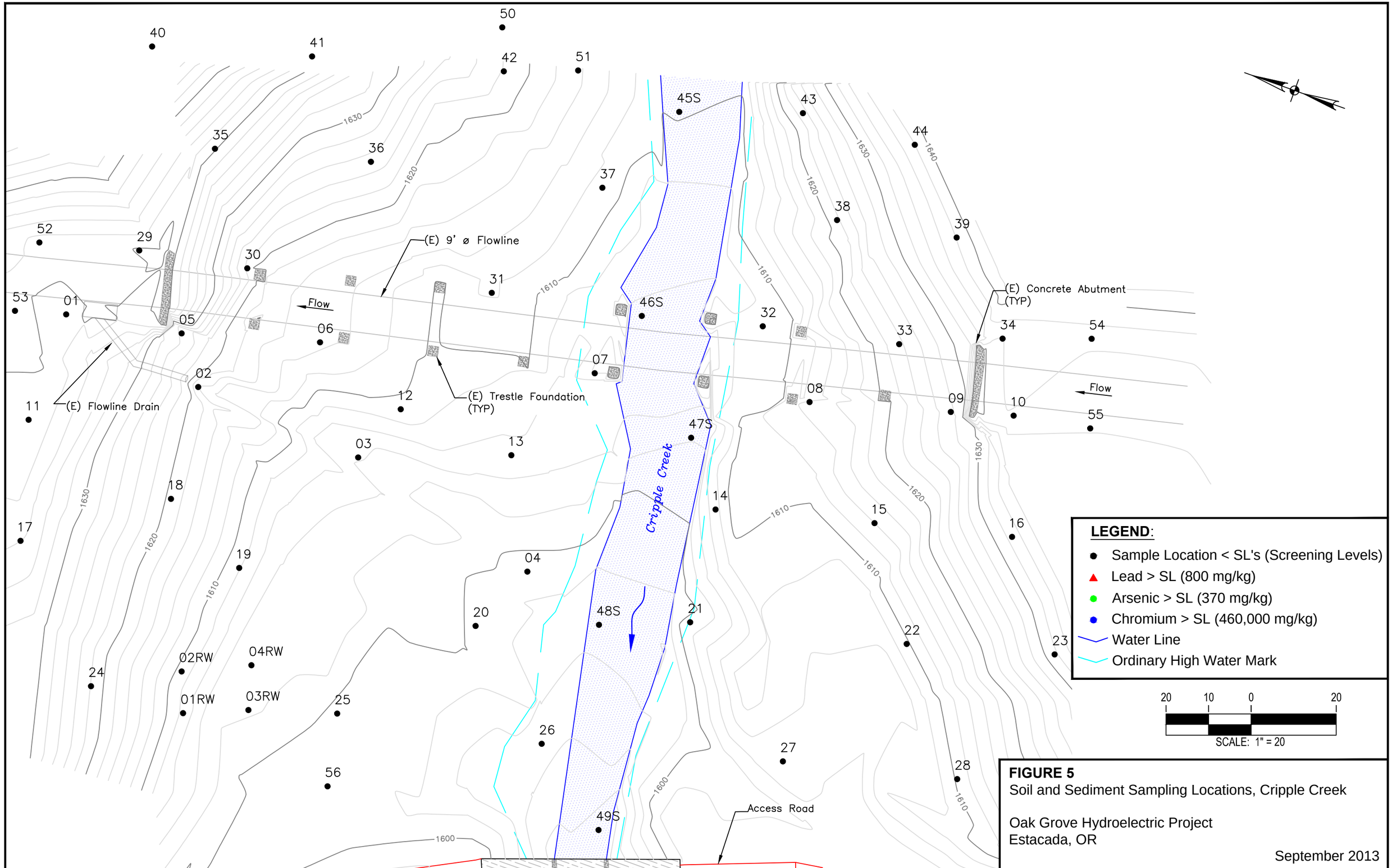


FIGURE 5
Soil and Sediment Sampling Locations, Cripple Creek

Oak Grove Hydroelectric Project
Estacada, OR

September 2013

Removal Area			
Location	Exc. Depth	S.F.	C.Y.
1	6"	781	14.46
2	12"	348	12.89
3	18"	389	21.61
4	12"	179	6.63

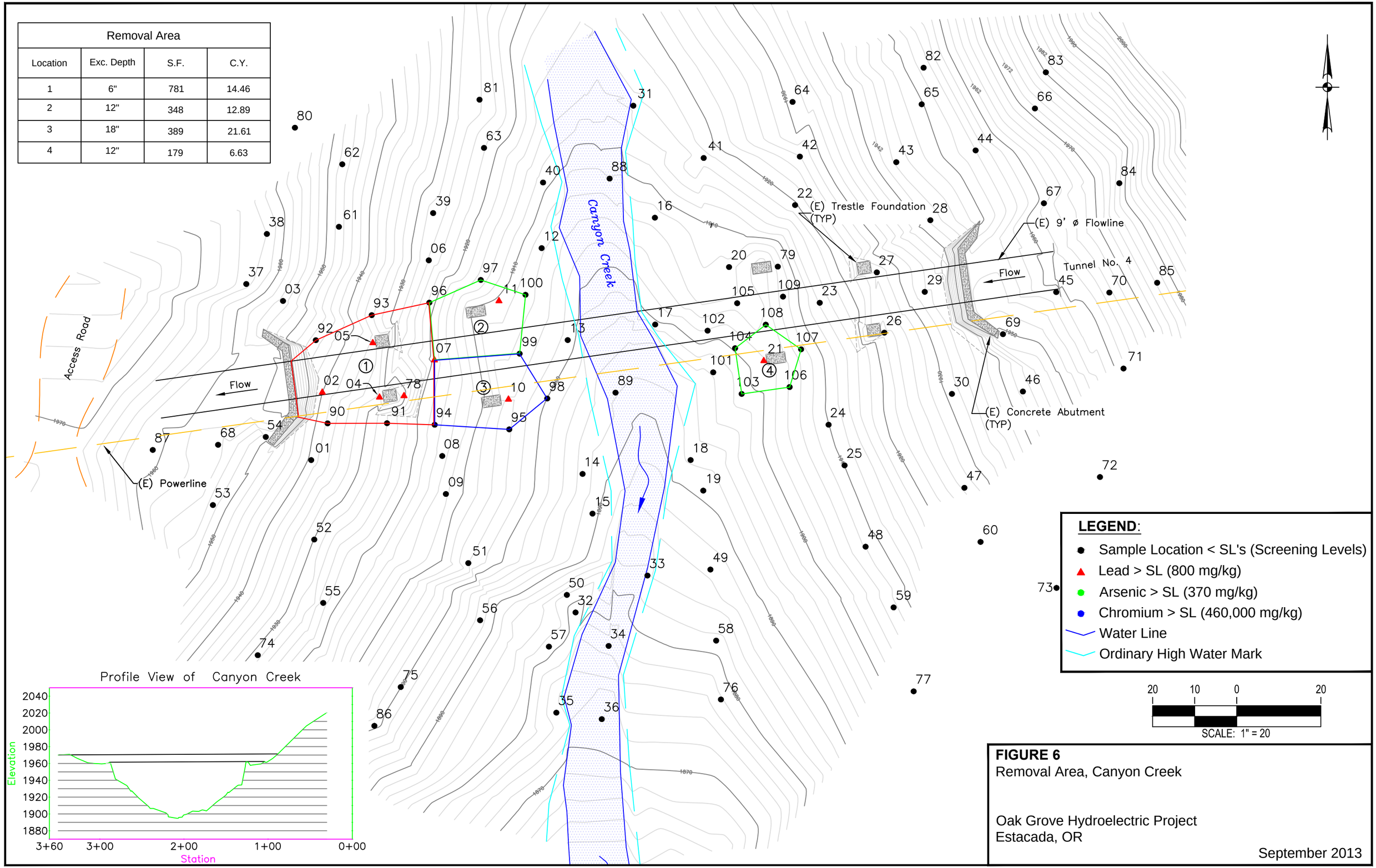


FIGURE 6
Removal Area, Canyon Creek

Oak Grove Hydroelectric Project
Estacada, OR

September 2013

Removal Area			
Location	Exc. Depth	S.F.	C.Y.
1	6"	1411	26.13
2	6"	494	9.15

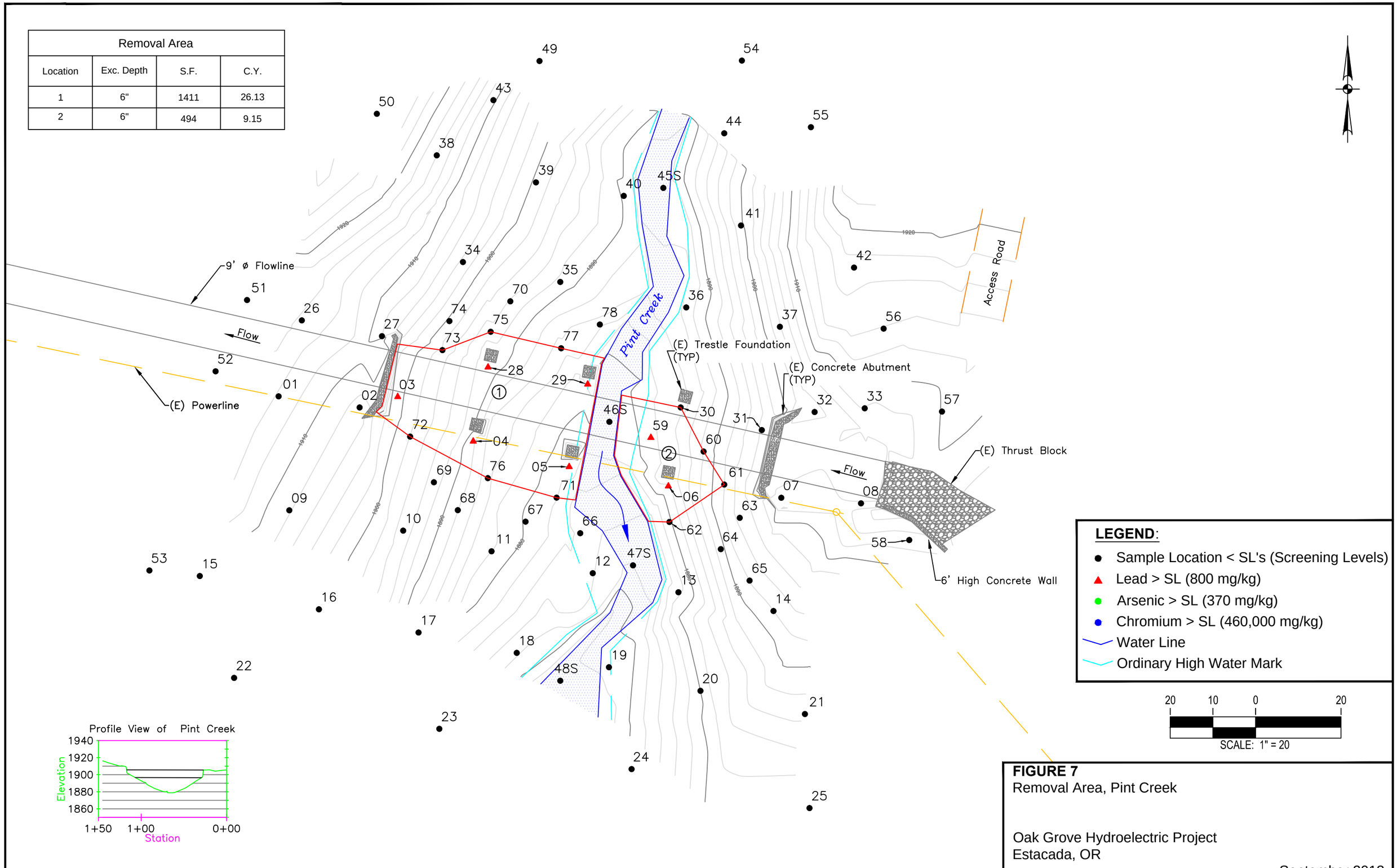


FIGURE 7
Removal Area, Pint Creek

Oak Grove Hydroelectric Project
Estacada, OR

September 2013

Appendix A – Updated Preliminary Risk Screening Technical Memorandum, May 25, 2012

Updated Preliminary Risk Screening and Proposed Relevant Screening Values

PREPARED FOR: Edwin Klaassen/USFS

PREPARED BY: Aaron Leritz/Bridgewater Group

COPIES: Brandy Domina/PGE
David Hendrix/PGE
Arya Behbehani/PGE

DATE: May 25, 2012

Purpose

This memorandum documents an updated streamlined risk evaluation and presents proposed relevant screening values for the arsenic, lead, and chromium impacted soils in the vicinity of the Oak Grove Hydroelectric Project (Project) water conveyance pipeline trestles (Trestles). This document is an updated version of the Technical Memorandum dated November 28, 2011.

Portland General Electric Company (PGE) conducted a site investigation (SI) at the Canyon Creek, Cripple Creek, and Pint Creek Trestles to characterize hazardous substance impacted soils which may have resulted from historical sand blasting of the painted trestles. The results of the SI are presented in the May 31, 2012 Final SI Report. However, the final SI data results have been reproduced and are included in this memorandum as Tables RA-1 through RA-7.

The streamlined risk evaluation was updated in light of United States Department of Agriculture-Forest Service, Mt Hood National Forest (USDA-FS, MtH) and Oregon Department of Environmental Quality (DEQ) March 20, 2012 comments.

Site Characteristics

Site Description and Background

This section provides a description of the Trestles and related background information including: site location; facility type and operation; topography and site geology/hydrogeology; surrounding land use; potential human and ecologic receptors, sensitive ecosystems; meteorology; and previous removal actions conducted at the facility.

Site Location, Facility Type, and Operations

The Trestles are located in a remote area at Section 21 of Township 5 South, Range 5 East of the Willamette Meridian, Clackamas County, Oregon, U.S. Geological Survey (USGS) quadrangle Fish Creek Mountain. The Oak Grove Hydroelectric Powerhouse (Powerhouse) is located approximately 22 miles southeast of Estacada in Clackamas County, Oregon. The 6.4 mile long water conveyance pipeline (pipeline) conveys water that is diverted from Lake Harriet, north to the Powerhouse for the generation of electricity. The Trestles are located at three different remote locations along the pipeline between Lake Harriet and the Oak Grove Powerhouse at the following approximate locations:

Trestle	Section Township Range	Latitude, Longitude	Elevation
Cripple Creek	S22 T5S R6E	45° 6’ 57”, 122° 03’ 28”	1,640
Pint Creek	S35 T5S R6E	45° 05’ 22”, 122° 01’ 58”	1,910
Canyon Creek	S31 T5S R7E	45° 05’ 14”, 121° 59’ 47”	1,960

The Cripple Creek Trestle supports a pipeline span of approximately 192 feet. The Pint Creek Trestle is approximately 92 feet across, while the Canyon Creek Trestle is approximately 163 feet across.

The Powerhouse and associated facilities have been in operation since approximately 1922 when the Project was constructed. According to PGE, the Trestles are inspected weekly by operations staff by walking the entire pipeline. No other human activity is known or likely to occur at the locations unless maintenance or repairs are needed.

Topography

The Trestles are located on steep hillsides approximately 400-500 feet above the Clackamas River. The topography surrounding each Trestle is steep and densely wooded (with the exception of the cleared pipeline right-of-way). Canyon Creek, Cripple Creek, and Pint Creek flow in the base of each of the Trestles. Each creek is lined with a riparian zone typical of the Clackamas River tributaries.

Figures 1, 2, and 3 illustrate the elevations in the vicinity of the Trestles.

Geology and Hydrogeology

The near-surface geology at the Trestles generally consists of gravelly silt with cobbles and boulders and silty, gravelly, sand with cobbles and boulders. Geologic materials in areas closer to the stream at each trestle are predominated by coarser-grained cobbles and boulders with a small percentage of fines (primarily a rock-supported matrix). There is a noted increase in fines content within the cobble and boulder materials (primarily a soil-supported matrix) as one moves away from the streambed and up the slopes of the ravine.

Cripple Creek has year round flow. Canyon Creek flows aboveground during high flow seasons and underground in the vicinity of the trestle during low flow seasons. Pint Creek flows year round with seasonal fluctuations. The creeks are characterized as high energy and more likely to result in sediment scouring as is typical for steep topography.

The creeks have little to no potential for supporting anadromous fisheries in the vicinity of or immediately downstream of the Trestles. However, low numbers of brook and cutthroat trout have been observed in Cripple Creek at approximately river mile (RM) 0.9. The Cripple Creek Trestle is located at RM 0.8. Also, anadromous salmonids (winter stealhead and coho) have access up to RM 0.2, although they have not been observed by PGE and there is no connectivity to the Cripple Creek Trestle due to several natural barriers.

Low numbers of cutthroat trout are known to reside in the lower end of Pint Creek near the confluence with the Clackamas River. PGE's biologists performed a reconnaissance inspection of Pint Creek in February 2012 to evaluate creek characteristics between Pint Creek Trestle and known cutthroat trout habitat to determine if additional investigations or potential ecological receptors should be evaluated. The results of the reconnaissance inspection indicate there is a natural barrier between the Pint Creek Trestle and the known cutthroat trout habit and main stem of the Clackamas River. The PGE Biologists found no other potential fish bearing environments between the natural barrier and Pint Creek Trestle; however, PGE did identify a potential depositional area downstream of the Trestle where potentially impacted sediments may accumulate. The stream is narrow at this location and therefore will scour in high flows, but deposition may occur on a seasonal basis. The depth of groundwater is not known. Groundwater sampling was not performed. Groundwater was not encountered in any of the hand borings completed during the SI.

Surrounding Land Use and Human Populations

The Trestles are located within U.S. Forest Service (USFS) land. The area around the Trestles is densely forested with no residences within several miles. The nearest human population is the historic Three Lynx town site which provides housing for PGE employees who operate and maintain the Project, including the Trestles. The Three Lynx town site is greater than two miles away from the closest trestle site. According to the USFS, the Trestle areas have no recreation value or known recreational activity. The only known potential human contact is PGE workers doing twice a week inspections of the pipeline. The inspectors walk on designated man ways along the Trestles and do not come in contact with soils beneath the Trestles.

Potential Ecological Receptors

PGE surveyed terrestrial resources (vegetation communities/cover types, wildlife communities) and aquatic resources in the Clackamas River Basin (Basin) in 2002 as part of the Federal Energy Regulatory Commission (FERC) relicensing efforts. The results were presented in the 2002 Clackamas River FERC Environmental Impact Statement (FEIS) (FERC, 2002). The results have been reviewed and excerpts inserted below for Threatened and Endangered Species (TES) that could be expected to reside or frequent the Trestles. The surveys were conducted over a large area of the Basin with some focus along sections of the water conveyance pipeline right-of-away. Therefore, while the results are not specific to the Trestles, they do represent the typical environment in the vicinity of the water conveyance pipeline and Trestles.

Vegetation Communities/Cover Types

Upland conifer forests of different ages dominate the vegetative landscape of the water conveyance pipeline (FERC, 2002). Douglas fir and western hemlock are the most common tree species throughout the Project area. Deciduous forest types dominated by red alder, black cottonwood, and willow species are generally restricted to riparian zones along the Clackamas River, and associated tributaries such as the Canyon, Cripple, and Pint Creeks. Most of the upland conifer forest along the water conveyance pipeline is in the mid-seral successional stage, roughly 125 to 200-years-old. Mid-seral forests at the Project contain low-to moderate coverage of understory vegetation, which typically includes Oregon grape and swordfern or rhododendron and beargrass associations (FERC, 2002).

The water conveyance pipeline right-of-way (ROW) is approximately 50 feet wide. PGE manages vegetation in the ROW to maintain early successional shrub and tree stands that are dominated by western hemlock saplings, salal, swordfern, and Oregon grape. These ROWs also contain scattered populations of exotic and invasive plant species such as Scot's broom, Canada thistle, bull thistle, English ivy, Himalayan blackberry, perennial peavine, tansy ragwort, and St. John's wort (FERC, 2002).

Wildlife Communities

Terrestrial wildlife habitats and communities in the Basin are typical of those found in undeveloped landscapes at similar elevations along the west slope of the Cascades (FERC, 2002). Over 300 animal species are known to occur or potentially occur in the Basin. Birds are the most diverse group of animals in the vicinity of the Project with potentially more than 200 species. In addition, 18 species of amphibians, 13 species of reptiles, and 72 or more species of mammals have the potential to occur in the vicinity of the Basin (FERC, 2002).

As noted above, PGE maintains the 50-foot wide pipeline vegetation as early successional shrub and tree stands that are dominated by western hemlock saplings, salal, swordfern, and Oregon grape. There are also scattered populations of exotic and invasive plant species. The ground surface and creek banks directly beneath the pipeline are exposed soil with virtually no vegetation or cover as a result of the pipeline development. The lack of vegetation cover directly beneath the pipeline limits terrestrial wildlife habits. The densities of terrestrial species are expected to be significantly less dense and more limited than those found in the undeveloped landscapes.

Aquatic Resources

Canyon, Cripple, and Pints Creeks are tributaries to the Clackamas River. Cripple Creek has year round flow. Canyon Creek flows aboveground during high flow seasons and underground in the vicinity of the trestle during low flow seasons. Pint Creek flows year round with seasonal fluctuations.

The steepness in terrain and lack of flow or seasonal fluctuations in the creeks limit the potential presence of salmonids in the vicinity of the Trestles. Canyon Creek is not known to support salmonids below the Trestles. A 1992 PGE electro-shock survey indicates that Cripple Creek has brook trout upstream of RM 0.9 and cutthroat trout downstream of RM 0.9. Cripple Trestle is located at approximately RM 0.8. Anadromous salmonids (winter steelhead and coho) are believed to have access up to RM 0.2 but have not been observed there and there is no connectivity to the Cripple Creek Trestle due to several natural barriers.

The same 1992 PGE electro-shock survey found low numbers of cutthroat trout in lower Pint Creek. In response to this finding, PGE's biologists performed a reconnaissance inspection of Pint Creek in February 2012 to further evaluate the potentially affected area and to determine if additional investigations or potential ecological receptors should be evaluated. The results of the reconnaissance inspection indicate there is a natural barrier between the location where low numbers of cutthroat trout were found in Pint Creek in 1992 and the location of the Pint Creek Trestle. No other potential fish bearing environments were identified by PGE between the natural barrier and the Trestle; however, PGE did identify a potential depositional area downstream of the Trestle were potentially impacted sediments may accumulate. The stream is narrow at this location and therefore will scour in high flows, but deposition may occur on a seasonal basis.

The creeks with year-round flow (Cripple and Pint Creeks), likely support some of the 18 amphibians species observed in the Basin. The amphibian species are expected to be those that prefer seasonal and shallow streams with limited to no wetland environments.

Sensitive Ecosystems and Threatened and Endangered Species

PGE also identified and evaluated TES in 2002 as part of the FERC relicensing efforts. The results of the survey are discussed in the 2002 Clackamas River FEIS (FERC, 2002). A summary of the 2002 Clackamas River FEIS is presented below.

The following TES species were found to be present in the Oak Grove operating area and, in the opinion of PGE biologists, are potentially present in the vicinity of the Trestles:

- Cascade Torrent Salamander (Rhyacotriton Cascadae), and
- Northern Spotted Owl (Strix Occidentalis).

Cascade Torrent Salamander (Rhyacotriton cascadae)

The USFS lists the Cascade torrent salamander as sensitive in the U.S. Department of Agriculture Forest Service (USDA-FA) Region 6, the Oregon Natural Heritage Program (ONHP)[1] designates it as a List 4 species meaning rare and apparently secure but with cause for long-term concern, and the Oregon Department of Fish and Wildlife (ODFW) lists its status as "sensitive-undetermined." This species is a habitat specialist: it requires very shallow, silt-free streams, waterfalls, and seeps. It prefers steep, low-order streams below elevation 3,500 feet, although it also utilizes 3rd and 4th order streams. The most significant threat to this species is increased water temperature related to deforestation of riparian zones. It exhibits a limited capacity to re-colonize areas that have experienced localized extinctions (Bury and Corn, 1988, in EDAW, 2003a).

In the vicinity of the Project, known populations of the Cascade torrent salamander occur in Cripple Creek. It also occurs in several tributaries of the south fork of the Clackamas River outside the Project area.

Northern Spotted Owl (Strix occidentalis caurina)

The northern spotted owl is a U.S. Fish and Wildlife Service (USFWS) and ODFW threatened subspecies that is restricted to coniferous forests in the Pacific Northwest, from Northern California through Washington. This species typically nests in cavities of

[1] ONHP is now the Oregon Biodiverty Information Center (ORBIC)

mature trees and prefers moist, old-growth coniferous forests; however, it also utilizes less mature, managed forests in some locations. The northern spotted owl prefers forests dominated by Douglas fir and Western hemlock in low-lying coastal areas and Pacific silver fir at higher elevations (USFWS, 1992). This species is a nocturnal predator and relies primarily on rodents as forage, however it will feed on other birds, insects, amphibians, and reptiles (Forsman, 2003).

Northern spotted owls inhabit a variety of forested habitats throughout their range; however, most researchers agree that young forests constitute marginal habitat for this species (Forsman, 2003). In 1992, the USFWS designated as critical habitat for this species forest that is structurally equivalent to a Douglas fir stand 80 years of age or older, and indicated that habitat loss and fragmentation are significant factors contributing to the species' decline in the region (USFWS, 1992). In recent years other studies suggest that population declines are related to decreases in adult survivorship.

Northern spotted owls occur throughout the Project vicinity, in hemlock and silver fir-dominated forests. Dispersal of owls in the Clackamas River Basin does not seem to be adversely affected by lack of habitat (PGE, 1999; Stillwater, 2005); however, data on adult survivorship in the Project vicinity are currently unavailable. While there is currently no federally-designated spotted owl critical habitat in the Project area, the Oak Grove Fork watershed contains 31 spotted owl activity centers (Stillwater, 2005). Northern spotted owls are sensitive to elevated noise levels, and noise above ambient levels from March 1 through July 15 could disrupt spotted owl nesting activities (PGE, 2006).

Known spotted owl activity centers in the vicinity of the Project are concentrated in portions of the Oak Grove Fork watershed that contain old growth and late-successional forest.

Meteorology

The Trestles are approximately 1,700 feet above mean sea level. According to information at www.worldclimate.com/cgi-bin/grid.pl?gr=n45w122, the average monthly minimum temperature at Three Lynx ranges from 30.6 (January) to 50.4 (August) degrees Fahrenheit. The average monthly maximum temperature ranges from 41.5 (January) to 78.3 (August) degrees Fahrenheit. According to PGE, the average annual rainfall is approximately 65 inches, with several inches to several feet of snowfall in the winter months.

Previous Removal Actions

No removal actions have been performed at the Trestles.

Source, Nature, and Extent of Contamination

Sources of Contamination

The presence of arsenic, lead, and chromium in surface soils is believed to have originated from historic paint removed from the Trestles using grit blast. Chromium speciation analysis has been completed on selected Canyon Creek soil samples. The results of the analysis show that chromium present in soil at the Canyon Creek Trestle is

approximately 99 percent trivalent chromium (chromium III) [2]. Each Trestle was grit blasted in 1992 to remove the paint prior to re-painting.

Nature, Extent of Contamination, and Pathways

The SI was conducted in several phases and documented in a full SI report dated May 31, 2012. Tables RA-1 through RA-7 provide the analytical results for surface and near surface soils, creek sediments, and surface water samples collected at the Trestles. Table RA-2 provides chromium specific results for Canyon Creek. Tables RA-6 and RA-7 provides the results of surface water samples collected at Pint and Cripple Creeks, respectively. The results indicate the nature and extent impacts have been characterized. The contamination appears stable and there does not appear to be a threat of ongoing release.

Figures 1, 2, and 3 illustrate the locations where soil, surface water, and sediment samples were collected at each Trestle. Arsenic, lead, and chromium concentrations are present above published screening values and default background concentrations at each Trestle. The arsenic, lead, and chromium concentrations are highest directly below and in the vicinity of the Trestles and decrease rapidly with distance from the Trestles. Impacted soils are limited to the upper 1 foot below ground surface.

A toxicity characteristic leachate procedure analysis suggests the lead and chromium species present at the Trestles are not readily leachable. This is further evidenced by a surface water sample collected from Cripple Creek during a storm event. The surface water sample was non-detected for lead, chromium, and total suspended solids (TSS).

Nondetectable TSS suggests the soils are either not readily erodible, or vegetation limits erosion to surface water. Further, sediment sample results suggest that erosion has been extremely limited and erosion to surface water and sediments is not a relevant pathway. Sediment sample results for lead and total and trivalent chromium at Canyon Creek are slightly above the default background concentrations. However, arsenic, lead, and chromium were detected below all default background concentrations in sediment samples collected from Cripple and Pint Creeks.

Arsenic, chromium, and lead are not volatile and, due to heavy vegetation and moss growth, wind erosion is not a likely pathway.

Analytical Data

Analytical data are discussed above and presented in Tables RA-1 through RA-7. Laboratory analytical reports are provided in the May 31, 2012 SI report.

Evaluation of Potential Receptors Pathways

PGE evaluated potential human health and ecological receptors pathways in the vicinity of the Trestles. Results of the evaluation follow.

[2] As noted above, chromium at the Canyon Creek was found to be approximately 99 percent trivalent chromium. Chromium was not speciated in soil samples collected at Pint and Cripple Creeks because the concentrations generally did not warrant such analysis. Therefore, the term chromium is used generally to mean total chromium when talking about all three Trestles together. A specific type of chromium will be identified when discussing Canyon Creek.

Human Exposure Pathways

The nearest residence is over seven miles from the Trestles. Human activities in the vicinity of the Trestles are extremely infrequent. Groundwater is not used by humans nor is it believed to be impacted due to the site investigation results. Arsenic, chromium, and lead are not volatile, there are no buildings, and the arsenic, chromium, and lead species present are not highly leachable. Consequently, residential exposures, volatilization to outdoor air; vapor intrusion into buildings; and leaching to groundwater pathways are not relevant. Recreational use of the Creeks in the vicinity of the Trestles has not been observed and is not expected. Canyon and Pint Creek are not fish bearing in the vicinity of the trestles and fish present near the Cripple Creek Trestle are not used for commercial, recreational, or subsistence.

The occupational worker exposure pathway is a potential pathway. However, occupational workers do not typically come into contact with soils beneath the Trestles unless they are performing maintenance related work. The Trestles are inspected twice a week by Oak Grove staff but they typically stay on the man ways along the pipeline and do not contact the soil. PGE performs vegetation management and brush removal along the pipeline right-of-way every 2-3 years.

Therefore, the only expected potential human health pathway is maintenance workers potentially contacting and ingesting soil that has been impacted by arsenic, chromium, or lead.

Ecological Receptors Exposure Pathways

As noted in the Ecological Receptors section above, the Trestles are located in a remote densely wooded and highly productive upland conifer forest in the Clackamas River Basin. The results of biological surveys performed in the Basin identified the presence of avian, mammalian, and aquatic species. PGE also presumes the presence of terrestrial invertebrates, although survey for these organisms has not been performed in the vicinity of the Trestles or Basin. A discussion of the potential ecological exposure pathways follow.

Avian Exposure Scenario

There are over 200 potential bird species that have been observed in the Basin however the Basin covers 10,518 acres. A survey of the species present in the immediate area of the Trestles has not been performed. PGE's biologists evaluated the list of species identified in the Basin and formed the following professional opinions:

- The abundance of the avian species and populations identified in the Basin are anticipated to reside near the open water lakes and reservoirs.
- Species expected to be found in the upland conifer forests include all trophic levels including avian herbivore, avian ground insectivore, and avian carnivore.

Further, known populations of the northern spotted owl are present in the Basin. The northern spotted owl is considered an avian carnivore. The northern spotted owl food sources include small mammals of all trophic levels and potentially other birds, amphibians, and insects.

Populations of avian receptors may be present that could directly contact soil or ingest vegetation, mammals, or invertebrates impacted by arsenic, chromium, or lead. However, the Trestles footprint where arsenic, chromium, and lead have been detected

is extremely small relative to the upland forest area and Basin. There are no avian populations that would be expected to reside only in the area of one of the Trestles. Food sources are likely more abundant outside of the Trestle boundaries that have not been impacted by development and foraging habitat in the Trestle area is not critical to avian survival. Consequently, the risk of avian direct contact to surface soils and ingestion of soil or food sources from the area where arsenic chromium and lead have been detected is extremely limited and likely undetectable in the avian population. Further, there are no known local populations critical to the known avian species survival.

Terrestrial Invertebrates

Terrestrial invertebrates are likely present in the Trestles areas, however, PGE has no survey data detailing the actual species and density of populations and whether there are any local populations. It is likely that soil micro- and macro-invertebrates are also likely to be present and are likely in direct contact and ingesting arsenic, chromium, and lead present in organic matter.

There are no known TES terrestrial invertebrates, terrestrial invertebrates critical to TES or other higher order species, or terrestrial invertebrates that are localized to the Trestle areas. Again, given the very small area relative to the surrounding upland conifer forest, the terrestrial invertebrates direct contact and ingestion pathways are not considered significant and are likely immeasurable, or *de Minimis* on a population basis.

Mammalian Exposure Scenario

According to PGE surveys, there are 72 or more known mammal species present in the Basin. Survey data specific to the Trestles is not available. Upland conifer forest is anticipated to sustain all trophic levels including herbivores, insectivores, and carnivores. There are no known mammalian TESs expected to occur in the Basin vicinity.

Mammalian herbivores could be present in the area of the Trestles that feed on vegetation that has taken up arsenic, chromium, or lead presenting a potential ingestion pathway. The ability of the localized vegetation to fix arsenic, chromium, and lead is not understood but it is likely that a lower concentration or a less toxic isotope would be available through vegetation. However, direct contact of mammalian herbivores to soil with detectable arsenic, chromium, and lead while feeding on vegetation in the vicinity of the Trestles is a possible exposure pathway.

Similarly, mammalian insectivores could be present in the area of the Trestles that feed on soil invertebrates, resulting in potential direct contact and ingestion of soil and invertebrates containing arsenic, chromium, or lead. Again, the bioavailability of arsenic, chromium, and lead in the invertebrates is not understood. It is possible that a lower concentration or a less toxic isotope would be available through ingestion of the invertebrates. Direct contact and ingestion of mammalian insectivores to soil with detectable arsenic, chromium, and lead while feeding on invertebrates in the vicinity of the Trestles are possible exposure pathways.

Similarly, mammalian carnivore could be present in the area of the Trestles that feed on mammals in soil resulting in potential direct contact and ingestion of soil and small mammals that may contain arsenic, chromium, or lead from ingestion of insects or vegetation. Again, the bioavailability of arsenic, chromium, and lead in the invertebrates or vegetation is not understood. It is possible that a lower concentration or a less toxic isotope would be available through ingestion of the invertebrates. Direct contact to soil

and ingestion of soil or animals with detectable arsenic, chromium, and lead while feeding in the vicinity of the Trestles is a possible exposure pathway.

However, the ground disturbance in the vicinity of the Trestles, especially where arsenic, chromium, and lead concentrations are the highest, has likely limited the presence of mammals of all trophic levels. Cover and vegetation is limited due to clearing and vegetation management practices, and much of the soil area beneath the Trestles is disturbed to a degree that has likely limited use by mammalian species. These factors reduce the likelihood of significant exposure pathways to mammalian species. Consequently, the mammalian exposure pathways while potentially present, are considered minimal, and likely immeasurable, or *de Minimis* on a population basis.

Aquatic Exposure Scenario

Canyon Creek does not support salmonid habitats. RM 0.9 of Cripple Creek, above the Trestle, has low numbers of brook trout and cutthroat trout. Salmonids are potentially present in the lower end of Cripple Creek. Low numbers of cutthroat trout are present near the Clackamas. However, both creeks have natural barriers to prevent migration of fish to the vicinity of the Trestles. Amphibians such as frogs and salamanders are likely present near the Trestles. Known populations of TES are present in Cripple Creek, namely the Cascade torrent salamander.

However, sediment and water sampling in Canyon, Cripple, and Pint Creeks indicate arsenic, chromium, and lead are near or below the naturally occurring background concentrations. Consequently, the exposure of aquatic resources to arsenic, chromium, or lead is not a complete pathway.

Summary

Upland Avian, mammalian, and terrestrial species are likely present in the vicinity of the Trestles where arsenic, chromium, and lead have been detected. Aquatic exposure to arsenic, chromium, or lead is not a complete pathway. Dermal contact is a potential pathway; however it is not considered important for inorganic constituents as they are not lipophilic and cannot cross epidermal barriers. Therefore, only relevant potential pathway is ingestion of food sources or direct ingestion of soil with arsenic, chromium, or lead. Ingestion potential for upland avian, mammalian, and terrestrial organisms is possible; however, no critical food sources have been identified, there are no known localized populations, and no upland ecologically important species have been identified. The only potential receptor of special note is the northern spotted owl which is considered a TES.

The area of impacted soil in the vicinity of the Trestles is small relative to the surrounding upland conifer forest. Further, the area in the vicinity of the Trestles is disturbed and considered inferior habitant as compared to the outlying area. Therefore, none of the identified ecological receptors pathways are considered significant or important.

Comparison to Identify Screening Level Values (SLVs)

The results of the human health and ecological exposure pathway evaluation suggest the maintenance worker is the only relevant exposure pathway to arsenic, chromium,

and lead detected in soil at the Trestles. The applicable screening level values are DEQ's Risk Based Concentrations (RBC). PGE compared the arsenic, chromium, and lead concentrations detected at the Trestles to the construction and excavation worker RBC. Chromium concentrations in soil at Canyon Creek were elevated more than soil at the Cripple and Pint Creek Trestles. To assist in further evaluation of the risks associated with chromium exposures, PGE selected and analyzed three soil samples collected from Canyon Creek for hexavalent chromium (chromium VI). Results of the analysis showed approximately 1 percent chromium VI, leading to the deduction that approximately 99 percent is trivalent chromium (chromium III).

Cripple Creek and Pint Creek soil samples were not speciated for chromium VI; therefore, PGE screened results against the most conservative human health RBC between chromium VI and chromium III. More often than not, Chromium VI screening values are lower because chromium VI tends to be more toxic to most receptors. However, the construction worker RBC for chromium VI is 43 mg/kg, approximately half of the naturally occurring background concentration. Consequently, the background concentration of 86 mg/kg should be the default screening value if 100% of the detected chromium at Cripple and Pint Creeks is chromium VI. The excavation worker RBC is 1,200 mg/kg and may be more applicable to the occupational activities at the site.

It is extremely likely that chromium at Cripple and Pint Creeks would resemble that detected at Canyon Creek since the Trestles were painted and sand blasted at the same time. Therefore, the use of the chromium VI screening level is an extremely conservative approach.

The following human health RBCs were used to evaluate exposure risks at the Trestles:

Applicable RBC or Background Level
Water Conveyance Trestles

Constituent	**Construction Worker (mg/kg**	**Excavation Worker (mg/kg)**	**Background**
Arsenic	13	370	Not applicable
Chromium (III)	460,000	No value	86 mg/kg
Chromium (VI)	43	1,200	130 mg/kg
Lead	800	800	Not applicable

The investigation data and RBCs are presented in the Tables RA-1 through RA-5 for each Trestle and summarized below.

Canyon Creek

Arsenic was detected in soil greater than the construction worker RBC at Canyon Creek at limited locations; however, it was not detected above the excavation worker. Chromium and lead were detected at much higher frequencies and arsenic was detected only at locations where chromium and lead were also detected above their respective RBCs.

As shown in Table RA-2, chromium (III) soil ingestion and dermal contact RBC for construction workers is 460,000 mg/kg. All detected chromium is below the RBC.

The lead soil ingestion and dermal contact RBC for both construction and excavation workers is 800 mg/kg. Several sample locations contain lead greater than 800 mg/kg; therefore, there is a potential exposure of construction workers to lead exceeding the construction worker RBC.

Tabulated soil and sediment analytical data is provided in Tables RA-1 and RA-2.

Pint Creek

Arsenic was detected in soil above the construction worker RBC at Pint Creek at two locations; however it was not detected above the excavation worker RBC. Chromium and lead were detected at slightly higher frequencies and arsenic was detected only at locations where lead was also detected above the RBC. Arsenic is not considered a risk driver at Pint Creek.

Total chromium was detected above the very conservative naturally occurring background concentration in 12 of 59 soil samples. Chromium was not detected above the chromium VI excavation worker RBC of 1,200 mg/kg. The highest concentration of total chromium detected is 115 mg/kg. In all locations, the chromium concentrations are greater at subsurface depth intervals. At the same time, arsenic and lead were not detected above their respective naturally occurring background concentrations in the sample. These facts strongly suggested the area has elevated naturally occurring background levels of chromium. Added to this, and if the detected chromium is not attributable to naturally occurring chromium, it is extremely likely that chromium at Pint Creek resembles that detected at Canyon Creek. That being the case, PGE could apply the Chromium III RBC which is 460,000 mg/kg further minimizing the detected chromium at Pint Creek. As a result, chromium is not considered a risk driver at Pint Creek.

Lead was detected above the RBC in 7 of 59 soil samples. The detections above the RBC range from 834 mg/kg to 1,370 mg/kg and were in the surface soil sample in all cases except one where soil sloughing has occurred down the steep embankment beneath the trestle. The presence of lead above the RBC may pose a human health risk to construction or excavation workers.

Tabulated soil and sediment analytical data is provided in Table RA-3. Pint Creek water quality data is provided in Table RA-6.

Cripple Creek

Arsenic was detected in soil above the construction worker RBC at Cripple Creek in 9 of 60 soil samples. Arsenic was not detected above the excavation worker RBC. In all cases, the arsenic was detected at locations were lead was also observed to be elevated above background but did not exceed the lead RBC. Therefore, it is likely the elevated arsenic observed in surface soil at the Cripple Creek Trestle is not naturally

occurring. However, since the arsenic does not exceed the excavation worker RBC, it is likely not considered to pose a significant exposure to occupational workers.

Chromium was not detected above the very conservative naturally occurring background concentration of 86 mg/kg.

Lead was not detected above the RBC in soil samples collected at Cripple Creek. Therefore, lead is not likely to pose a human health exposure risk to construction or excavation workers at Cripple Creek.

Tabulated soil and sediment analytical data is provided in Table RA-4. Water quality data is provided in Table RA-7.

Conclusion

PGE evaluated potential human health and ecological exposure pathways at the Trestles to assess if hazardous substances are posing an unacceptable risk to potential receptors.

Aquatic exposure pathways are not relevant as sediment and water quality data do not indicate impacts to those media. Upland Avian, mammalian, and terrestrial species are likely present in the vicinity of the Trestles where arsenic, chromium, and lead have been detected and could potentially ingest food sources or soil impacted with arsenic, chromium, and lead above conservative SLVs. The only potential TES receptor of special note is the northern spotted owl.

However, no critical food sources have been identified, there are no known localized populations, and no upland ecologically important species have been identified in the Trestles area. Further, the area of impacted soil in the vicinity of the Trestles is small relative to the surrounding upland conifer forest and the ground surface in the Trestle areas are disturbed and considered inferior habitat as compared to the outlying areas. Therefore, none of the identified ecological receptors pathways are considered significant or important at the Trestle areas.

An evaluation of potential human health exposure pathways indicates that construction or excavation workers could come into contact with arsenic and lead contaminated soil at Canyon Creek and lead contaminated soil at Pint Creek at concentrations that exceed the RBCs. Arsenic, chromium, and lead concentrations in soil at Cripple Creek are below the RBCs and not do not pose an unacceptable risk to construction or excavation workers.

References

Federal Energy Regulatory Commission (FERC), Clackamas River Environmental Impact State (EIS), December 21, 2006.

GeoEngineers, Background Metals Report, Oregon Background Metals Evaluation Various, Oregon, For Oregon Department of Environmental Quality, June 20, 2010.

Tables

TABLE RA-1 – Detected Metals Concentrations in Soil- Canyon Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
Human Health: Construction Worker ==>	13. [a]	>Max [a]	150 [a]	800 [a]	93. [a]	5,100 [c]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [d]	85 [d]	1 [d]	17 [d]	0.07 [d]	2 [d]	1. [d]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
01	001	16-Jul-08	0.0 - 0.25	**15.7**	77.5	2.64 U	288.	0.0826 U	2.64 U	2.64 U
	001B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	47.1	*na*	*na*	*na*
	001C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	*na*	*na*	*na*	*na*
02	002	16-Jul-08	0.0 - 0.25	**58.6**	248.	19.6	**1,990.**	0.069 U	2.59 U	5.01
	002B	17-Oct-08	0.25 - 0.50	25.3 U	*na*	4.4	216.	*na*	*na*	3.03 U
	002C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	26.5	*na*	*na*	*na*
	02-C	30-Aug-11	1.0 - 1.50	*na*	*na*	*na*	37.3	*na*	*na*	*na*
	02-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	3.75	*na*	*na*	*na*
	02-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	3.93	*na*	*na*	*na*
03	003	16-Jul-08	0.0 - 0.25	4.49	59.6	2.66 U	155.	0.247 U	2.66 U	2.66 U
04	004	16-Jul-08	0.0 - 0.25	**28.1**	159.	14.7	**1,550.**	0.093 U	2.51 U	3.23
	04-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	171.	*na*	*na*	*na*
	04-BD	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	120.	*na*	*na*	*na*
	04-C	26-Sep-11	1.0 - 1.50	*na*	*na*	*na*	18.2	*na*	*na*	*na*
	04-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	42.9	*na*	*na*	*na*
	04-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	98.1	*na*	*na*	*na*
	04-F	26-Sep-11	2.5 - 3.00	*na*	*na*	*na*	56.4	*na*	*na*	*na*
05	005	16-Jul-08	0.0 - 0.25	**21.6**	110.	7.1	**958.**	0.0809 U	2.55 U	2.55 U
	05-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	161.	*na*	*na*	*na*
	05-C	30-Aug-11	1.0 - 1.50	*na*	*na*	*na*	37.6	*na*	*na*	*na*
06	006	16-Jul-08	0.0 - 0.25	**11.1**	162.	2.63 U	208.	0.0566	2.63 U	2.63 U
07	007	16-Jul-08	0.0 - 0.25	**60.7**	272.	25.2	**2,850.**	0.0775 U	2.6 U	6.22
	007B	17-Oct-08	0.25 - 0.50	24.3 U	*na*	5.89	18.5	*na*	*na*	2.91 U
	007C	17-Oct-08	0.5 - 0.75	*na*	*na*	3.46 U	*na*	*na*	*na*	*na*
	07C	26-Sep-11	1.0 - 1.50	*na*	*na*	na	3.06	*na*	*na*	*na*
	07-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	3.31	*na*	*na*	*na*
	07-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	6.43	*na*	*na*	*na*
08	008	16-Jul-08	0.0 - 0.25	**24.**	124.	2.64	468.	0.0863 U	2.55 U	2.55 U
09	009	16-Jul-08	0.0 - 0.25	**15.6**	116.	2.62 U	227.	0.0771 U	2.62 U	2.62 U
	09-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	106.	*na*	*na*	*na*
	9C	31-Aug-11	1.0 - 1.50				8.56			
10	010	16-Jul-08	0.0 - 0.25	**8.2**	40.8	2.44 U	152.	0.0909 U	2.44 U	2.44 U
	010B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	**1,280.**	*na*	*na*	*na*
	010C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	**1,690.**	*na*	*na*	*na*
	10-C	30-Aug-11	1.0 - 1.50	*na*	*na*	*na*	**1,940.**	*na*	*na*	*na*
	10-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	10.4	*na*	*na*	*na*
	10-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	9.95	*na*	*na*	*na*
11	011	16-Jul-08	0.0 - 0.25	**11.3**	96.	2.6 U	486.	0.0452 U	2.6 U	2.6 U
	11-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	**3,470.**	*na*	*na*	*na*
	11C	26-Sep-11	1.0 - 1.50	*na*	*na*	*na*	112.	*na*	*na*	*na*
	11-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	99.7	*na*	*na*	*na*
	11-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	117.	*na*	*na*	*na*
	11-F	26-Sep-11	2.5 - 3.00	*na*	*na*	*na*	14.	*na*	*na*	*na*
12	012	16-Jul-08	0.0 - 0.25	**48.5**	293.	1.45	424.	0.0842 U	2.85 U	0.964
	12-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	158.	*na*	*na*	*na*
	12C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	28.1	*na*	*na*	*na*
13	013	16-Jul-08	0.0 - 0.25	**25.1**	135.	0.493 U	259.	0.0596 U	2.47 U	0.493 U
	013B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	9.71 U	*na*	*na*	*na*

TABLE RA-1 – Detected Metals Concentrations in Soil- Canyon Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
Human Health: Construction Worker ==>	13. [a]	>Max [a]	150 [a]	800 [a]	93. [a]	5,100 [c]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [d]	85 [d]	1 [d]	17 [d]	0.07 [d]	2 [d]	1. [d]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
14	014	16-Jul-08	0.0 - 0.25	**61.7**	231.	0.557 U	213.	0.0807 U	2.79 U	0.852
	014B	17-Oct-08	0.25 - 0.50	25. U	*na*	*na*	97.6	*na*	*na*	*na*
	014C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	*na*	*na*	*na*	*na*
15	015	16-Jul-08	0.0 - 0.25	**20.5**	169.	0.554 U	195.	0.0668 U	2.77 U	0.599
	15-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	15.2	*na*	*na*	*na*
16	016	16-Jul-08	0.0 - 0.25	**53.7**	298.	0.515 U	171.	0.0685 U	2.58 U	1.13
	016B	17-Oct-08	0.25 - 0.50	32.1 U	*na*	*na*	101.	*na*	*na*	*na*
	016C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	*na*	*na*	*na*	*na*
	16-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	3.92	*na*	*na*	*na*
	16-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	4.54	*na*	*na*	*na*
17	017-A	16-Jul-08	0.0 - 0.25	5.25	264.	0.537 U	35.2	0.064 U	2.68 U	0.537 U
	17-B	27-Sep-11	0.5 - 1.00	*na*	*na*	*na*	4.23	*na*	*na*	*na*
	17-C	27-Sep-11	1.0 - 1.50	*na*	*na*	*na*	3.83	*na*	*na*	*na*
	17-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	3.88	*na*	*na*	*na*
	17-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	4.08	*na*	*na*	*na*
18	018	16-Jul-08	0.0 - 0.25	3.03 U	113.	0.606 U	67.9	0.0902 U	3.03 U	0.606 U
19	019	16-Jul-08	0.0 - 0.25	4.89 U	59.1	0.978 U	82.3	0.138 U	4.89 U	0.978 U
	19-B	27-Sep-11	0.5 - 1.00	*na*	*na*	*na*	135.	*na*	*na*	*na*
	19-C	27-Sep-11	1.0 - 1.50	*na*	*na*	*na*	122.	*na*	*na*	*na*
	19-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	17.3	*na*	*na*	*na*
	19-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	25.9	*na*	*na*	*na*
20	020	16-Jul-08	0.0 - 0.25	4.9	65.9	0.515 U	86.5	0.0794 U	2.58 U	0.515 U
	20-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	729.	*na*	*na*	*na*
	20C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	50.6	*na*	*na*	*na*
21	021	16-Jul-08	0.0 - 0.25	4.71	64.6	0.507 U	**856.**	0.0683 U	2.53 U	0.507 U
	021B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	**2,160.**	*na*	*na*	*na*
	021C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	**2,160.**	*na*	*na*	*na*
	21-C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	80.2	*na*	*na*	*na*
	21-D	proposed	1.5 - 2.00	*na*	*na*	*na*	38.4	*na*	*na*	*na*
	21-E	proposed	2.0 - 2.50	*na*	*na*	*na*	14.8	*na*	*na*	*na*
22	022	16-Jul-08	0.0 - 0.25	2.69 U	133.	0.537 U	76.9	0.091 U	2.69 U	0.537 U
	22-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	4.3	*na*	*na*	*na*
23	023	16-Jul-08	0.0 - 0.25	2.57 U	67.3	0.513 U	411.	0.0766 U	2.57 U	0.513 U
24	024	16-Jul-08	0.0 - 0.25	5.37	80.5	0.489 U	116.	0.0791 U	2.45 U	0.489 U
25	025	16-Jul-08	0.0 - 0.25	4.68 U	78.2	0.936 U	159.	0.175 U	4.68 U	0.936 U
	25-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	5.03	*na*	*na*	*na*
26	026	16-Jul-08	0.0 - 0.25	5.16	104.	0.499 U	92.9	0.0697 U	2.49 U	0.499 U
	026B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	597.	*na*	*na*	*na*
	026C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	141.	*na*	*na*	*na*
	26-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	63.7	*na*	*na*	*na*
	26-D	29-Aug-11	1.5 - 2.00	*na*	*na*	*na*	207.	*na*	*na*	*na*
	26-E	29-Aug-11	2.0 - 2.50	*na*	*na*	*na*	5.16	*na*	*na*	*na*
27	027	16-Jul-08	0.0 - 0.25	6.9	113.	0.495 U	122.	0.0686 U	2.47 U	0.495 U
	027B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	314.	*na*	*na*	*na*
	027C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	65.1	*na*	*na*	*na*
	27-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	12.9	*na*	*na*	*na*
	27-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	10.8	*na*	*na*	*na*
	27-DD	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	14.2	*na*	*na*	*na*

TABLE RA-1 – Detected Metals Concentrations in Soil- Canyon Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
Human Health: Construction Worker ==>	13. [a]	>Max [a]	150 [a]	800 [a]	93. [a]	5,100 [c]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [d]	85 [d]	1 [d]	17 [d]	0.07 [d]	2 [d]	1. [d]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
	27-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	7.69	*na*	*na*	*na*
28	028	16-Jul-08	0.0 - 0.25	2.66 U	115.	2.66 U	41.9	0.0784 U	2.66 U	2.66 U
29	029	16-Jul-08	0.0 - 0.25	5.68	103.	2.47 U	157.	0.0795 U	2.47 U	2.47 U
	029B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	132.	*na*	*na*	*na*
	029C	17-Oct-08	0.5 - 0.75	*na*	*na*	*na*	309.	*na*	*na*	*na*
	29-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	14.2	*na*	*na*	*na*
30	030	16-Jul-08	0.0 - 0.25	5.17	119.	2.78 U	66.	0.0742 U	2.78 U	2.78 U
31	031	16-Jul-08	0.0 - 0.25	0.49 U	7.79	0.49 U	2.85	0.186 U	0.49 U	0.49 U
32	032	16-Jul-08	0.0 - 0.25	1.92	23.3	0.505 U	3.89	0.149 U	0.505 U	0.505 U
33	033	16-Jul-08	0.0 - 0.25	2.87	67.8	0.51 U	98.8	0.0899 U	0.51 U	0.51 U
34	034	16-Jul-08	0.0 - 0.25	1.48	48.6	0.505 U	6.26	0.159	0.505 U	0.505 U
35	035	16-Jul-08	0.0 - 0.25	2.22	146.	0.495 U	5.4	0.0892	0.495 U	0.495 U
36	036	16-Jul-08	0.0 - 0.25	2.12	50.7	0.521 U	9.56	0.157 U	0.521 U	0.521 U
37	037A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	9.9 U	*na*	*na*	*na*
38	038A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	10.6	*na*	*na*	*na*
39	039A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	363.	*na*	*na*	*na*
	039B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	87.7	*na*	*na*	*na*
	39-B	31-Aug-11	0.50 - 1.00	*na*	*na*	*na*	17.6	*na*	*na*	*na*
	39C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	6.68	*na*	*na*	*na*
40	040A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	110.	*na*	*na*	*na*
41	041A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	10. U	*na*	*na*	*na*
42	042A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	9.9 U	*na*	*na*	*na*
43	043A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	61.4	*na*	*na*	*na*
	43-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	4.58	*na*	*na*	*na*
44	044A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	24.9	*na*	*na*	*na*
45	045A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	434.	*na*	*na*	*na*
	045B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	454.	*na*	*na*	*na*
46	046A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	39.	*na*	*na*	*na*
47	047A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	53.9	*na*	*na*	*na*
	047B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	*na*	*na*	*na*	*na*
	47-B	30-Aug-11	0.50 - 1.00	*na*	*na*	*na*	3.53	*na*	*na*	*na*
48	048A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	20.6 U	*na*	*na*	*na*
49	049A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	21.4	*na*	*na*	*na*
50	050A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	12.5	*na*	*na*	*na*
51	051A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	12.9 U	*na*	*na*	*na*
52	052A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	500.	*na*	*na*	*na*
	052B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	245.	*na*	*na*	*na*
	52-B	30-Aug-11	0.50 - 1.00	*na*	*na*	*na*	11.7	*na*	*na*	*na*
53	053A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	12.8	*na*	*na*	*na*
54	054A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	33.7	*na*	*na*	*na*
	54-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	79.8	*na*	*na*	*na*
	54C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	16.1	*na*	*na*	*na*
55	055A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	12.4 U	*na*	*na*	*na*
56	056A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	23.9	*na*	*na*	*na*
57	057A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	31.2	*na*	*na*	*na*
	57-B	30-Aug-11	0.5 - 1.00	*na*	*na*	*na*	10.2	*na*	*na*	*na*
58	058A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	44.1	*na*	*na*	*na*
	058-B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	*na*	*na*	*na*	*na*

TABLE RA-1 – Detected Metals Concentrations in Soil- Canyon Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
Human Health: Construction Worker ==>	13. [a]	>Max [a]	150 [a]	800 [a]	93. [a]	5,100 [c]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [d]	85 [d]	1 [d]	17 [d]	0.07 [d]	2 [d]	1. [d]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
	58-B	27-Sep-11	0.5 - 1.00	*na*	*na*	*na*	3.98	*na*	*na*	*na*
	58-C	27-Sep-11	1.0 - 1.50	*na*	*na*	*na*	3.45	*na*	*na*	*na*
59	059A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	127.	*na*	*na*	*na*
	059B	17-Oct-08	0.25 - 0.50	*na*	*na*	*na*	*na*	*na*	*na*	*na*
	59-B	29-Aug-11	0.50 - 1.00	*na*	*na*	*na*	3.45	*na*	*na*	*na*
60	060A	17-Oct-08	0.0 - 0.25	*na*	*na*	*na*	*12.7* U	*na*	*na*	*na*
61	61-A	31-Aug-11	0.0 - 0.50	*na*	*na*	*na*	27.9	*na*	*na*	*na*
	61B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	5.51	*na*	*na*	*na*
	61C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	4.64	*na*	*na*	*na*
62	62-A	31-Aug-11	0.0 - 0.50	*na*	*na*	*na*	8.34	*na*	*na*	*na*
	62B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	3.56	*na*	*na*	*na*
	62C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	4.31	*na*	*na*	*na*
63	63-A	31-Aug-11	0.0 - 0.50	*na*	*na*	*na*	11.	*na*	*na*	*na*
	63B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	6.47	*na*	*na*	*na*
	63C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	4.67	*na*	*na*	*na*
64	64-A	29-Aug-11	0.0 - 0.50	*na*	*na*	*na*	4.52	*na*	*na*	*na*
65	65-A	29-Aug-11	0.0 - 0.50	*na*	*na*	*na*	38.	*na*	*na*	*na*
	65-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	5.08	*na*	*na*	*na*
	65-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	3.88	*na*	*na*	*na*
66	66-A	29-Aug-11	0.0 - 0.50	*na*	*na*	*na*	10.7	*na*	*na*	*na*
	66-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	4.45	*na*	*na*	*na*
	66-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	4.35	*na*	*na*	*na*
67	67-A	29-Aug-11	0.0 - 0.50	*na*	*na*	*na*	20.3	*na*	*na*	*na*
	67-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	25.8	*na*	*na*	*na*
	67-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	5.99	*na*	*na*	*na*
68	68-A	31-Aug-11	0.0 - 0.50	*na*	*na*	*na*	49.2	*na*	*na*	*na*
	68-AD	31-Aug-11	0.0 - 0.50	*na*	*na*	*na*	53.8	*na*	*na*	*na*
	68-B	31-Aug-11	0.5 - 1.00	*na*	*na*	*na*	12.4	*na*	*na*	*na*
	68-C	31-Aug-11	1.0 - 1.50	*na*	*na*	*na*	36.8	*na*	*na*	*na*
69	69-A	30-Aug-11	0.0 - 0.50	*na*	*na*	*na*	13.2	*na*	*na*	*na*
70	70-A	29-Aug-11	0.0 - 0.50	*na*	*na*	*na*	9.01	*na*	*na*	*na*
	70-B	29-Aug-11	0.5 - 1.00	*na*	*na*	*na*	5.14	*na*	*na*	*na*
	70-C	29-Aug-11	1.0 - 1.50	*na*	*na*	*na*	3.87	*na*	*na*	*na*
71	71-A	29-Aug-11	0.0 - 0.50	*na*	*na*	*na*	5.71	*na*	*na*	*na*
	71-AD	29-Aug-11	0.0 - 0.50	*na*	*na*	*na*	6.18	*na*	*na*	*na*
72	72-A	30-Aug-11	0.0 - 0.50	*na*	*na*	*na*	3.28	*na*	*na*	*na*
73	73-A	30-Aug-11	0.0 - 0.50	*na*	*na*	*na*	6.8	*na*	*na*	*na*
74	74-A	30-Aug-11	0.0 - 0.50	*na*	*na*	*na*	16.	*na*	*na*	*na*
75	75-A	30-Aug-11	0.0 - 0.50	*na*	*na*	*na*	23.	*na*	*na*	*na*
76	76-A	30-Aug-11	0.0 - 0.50	*na*	*na*	*na*	5.61	*na*	*na*	*na*
77	77-A	30-Aug-11	0.0 0.50	*na*	*na*	*na*	6.35	*na*	*na*	*na*
78	78-A	26-Sep-11	0.0 - 0.50	*na*	*na*	*na*	**1,300.**	*na*	*na*	*na*
	78-B	26-Sep-11	0.5 - 1.00	*na*	*na*	*na*	25.1	*na*	*na*	*na*
	78-C	26-Sep-11	1.0 - 1.50	*na*	*na*	*na*	7.29	*na*	*na*	*na*
	78-D	26-Sep-11	1.5 - 2.00	*na*	*na*	*na*	4.12	*na*	*na*	*na*
	78-E	26-Sep-11	2.0 - 2.50	*na*	*na*	*na*	24.2	*na*	*na*	*na*

TABLE RA-1 – Detected Metals Concentrations in Soil- Canyon Creek Trestle

Selected Data Screening Levels in mg/kg (ppm)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
Human Health: Construction Worker ==>	13. [a]	>Max [a]	150 [a]	800 [a]	93. [a]	5,100 [c]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [d]	85 [d]	1 [d]	17 [d]	0.07 [d]	2 [d]	1. [d]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Lead	Mercury	Selenium	Silver
79	79-A	27-Sep-11	0.0 - 0.50	*na*	*na*	*na*	*na*	*na*	*na*	*na*
	79-B	27-Sep-11	0.5 - 1.00	*na*	*na*	*na*	*na*	*na*	*na*	*na*
	79-C	27-Sep-11	1.0 - 1.50	*na*	*na*	*na*	14.4	*na*	*na*	*na*
	79-D	27-Sep-11	1.5 - 2.00	*na*	*na*	*na*	12.9	*na*	*na*	*na*
	79-E	27-Sep-11	2.0 - 2.50	*na*	*na*	*na*	4.96	*na*	*na*	*na*
80	80-A	26-Sep-11	0.0 - 0.50	*na*	*na*	*na*	13.8	*na*	*na*	*na*
81	81-A	26-Sep-11	0.0 - 0.50	*na*	*na*	*na*	10.2	*na*	*na*	*na*
82	82-A	28-Sep-11	0.0 - 0.50	*na*	*na*	*na*	5.09	*na*	*na*	*na*
	82-AD	28-Sep-11	0.0 - 0.50	*na*	*na*	*na*	4.81	*na*	*na*	*na*
83	83-A	28-Sep-11	0.0 - 0.50	*na*	*na*	*na*	5.55	*na*	*na*	*na*
84	84-A	28-Sep-11	0.0 - 0.50	*na*	*na*	*na*	9.24	*na*	*na*	*na*
85	85-A	28-Sep-11	0.0 - 0.50	*na*	*na*	*na*	12.3	*na*	*na*	*na*
86	86-A	26-Sep-11	0.0 - 0.50	*na*	*na*	*na*	10.4	*na*	*na*	*na*
87	87-A	26-Sep-11	0.0 - 0.50	*na*	*na*	*na*	10.1	*na*	*na*	*na*
88S	88-S	28-Sep-11	0.0 - 0.50	*na*	*na*	*na*	12.8	*na*	*na*	*na*
89S	89-S	28-Sep-11	0.0 - 0.50	*na*	*na*	*na*	39.9	*na*	*na*	*na*

a = DEQ Risk-Based Concentrations (RBCs) for Construction Worker (Revised November 15, 2011).
c = Environmental Protection Agency Regions 3, 6, 9 Preliminary Remediation (PRG) Goals, September 12, 2008, Industrial Soil
d = Table 1, Human Health Risk Assessment Guidance, DEQ (2010)
Orange Highlited = Relevant Screening Value
Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
mg/kg = milligrams/kilogram
na = no analysis
nc = no criteria
ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE RA-2 – Detected Trivalent and Hexavalent Chromium Concentrations in Soil- Canyon Creek Trestle

Screening Levels in mg/kg (ppm)	Total Chromium	Chromium VI	Chromium III
Human Health: Construction Worker ==>	na	43 [a]	460,000 [a]
Default Naturally-Occurring Background Level ==>		130 [b]	86 [c]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Chromium	Chromium VI	Chromium III	Percent Chrome VI
12	12-B	30-Aug-07	0.5 - 1.00	117.	**0.87**	116.13	0.0074
19	19-C	26-Sep-07	1.0 - 1.50	118.	**1.6**	116.4	0.0136
78	78-A	25-Sep-07	0.0 - 0.50	410.	**1.**	409.	0.0024
						avg percent	0.01

Deduced Chromium Concentrations in mg/kg (ppm)

					Assumes 1% Chromium VI	
01	001	15-Jul-04	0.0 - 0.25	1,050.	10.5	1,039.5
	001B	16-Oct-04	0.25 - 0.50	141.	1.41	139.59
	001C	16-Oct-04	0.5 - 0.75	66.	0.66	65.34
02	002	15-Jul-04	0.0 - 0.25	611.	6.11	604.89
	002B	16-Oct-04	0.25 - 0.50	64.1	0.64	63.46
	002C	16-Oct-04	0.5 - 0.75	*na*	na	na
	02-C	29-Aug-07	1.0 - 1.50	67.4	0.67	66.73
	02-D	25-Sep-07	1.5 - 2.00	39.1	0.39	38.71
	02-E	25-Sep-07	2.0 - 2.50	30.3	0.3	30.00
03	003	15-Jul-04	0.0 - 0.25	46.5	0.47	46.04
04	004	15-Jul-04	0.0 - 0.25	666.	6.66	659.34
	04-B	29-Aug-07	0.5 - 1.00	60.8	0.61	60.19
	04-BD	29-Aug-07	0.5 - 1.00	57.8	0.58	57.22
	04-C	25-Sep-07	1.0 - 1.50	24.8	0.25	24.55
	04-D	25-Sep-07	1.5 - 2.00	35.8	0.36	35.44
	04-E	25-Sep-07	2.0 - 2.50	38.1	0.38	37.72
	04-F	25-Sep-07	2.5 - 3.00	35.6	0.36	35.24
05	005	15-Jul-04	0.0 - 0.25	777.	7.77	769.23
	05-B	29-Aug-07	0.5 - 1.00	61.7	0.62	61.08
	05-C	29-Aug-07	1.0 - 1.50	37.5	0.38	37.13
06	006	15-Jul-04	0.0 - 0.25	58.3	0.58	57.72
07	007	15-Jul-04	0.0 - 0.25	370.	3.7	366.3
	007B	16-Oct-04	0.25 - 0.50	12.	0.12	11.88
	007C	16-Oct-04	0.5 - 0.75	*na*	na	na
	07C	25-Sep-07	1.0 - 1.50	6.45	0.06	6.39
	07-D	25-Sep-07	1.5 - 2.00	6.7	0.07	6.63
	07-E	25-Sep-07	2.0 - 2.50	6.65	0.07	6.58
08	008	15-Jul-04	0.0 - 0.25	725.	7.25	717.75
09	009	15-Jul-04	0.0 - 0.25	439.	4.39	434.6
	09-B	30-Aug-07	0.5 - 1.00	64.4	0.64	63.8
	9C	30-Aug-07	1.0 - 1.50	41.4	0.41	41.
10	010	15-Jul-04	0.0 - 0.25	1,400.	14.	1,386
	010B	16-Oct-04	0.25 - 0.50	151.	1.51	149.5
	010C	16-Oct-04	0.5 - 0.75	38.9	0.39	38.5
	10-C	29-Aug-07	1.0 - 1.50	29.5	0.3	29.2
	10-D	25-Sep-07	1.5 - 2.00	29.6	0.3	29.3
	10-E	25-Sep-07	2.0 - 2.50	22.3	0.22	22.1
11	011	15-Jul-04	0.0 - 0.25	92.7	0.93	92
	11-B	30-Aug-07	0.5 - 1.00	71.8	0.72	71.1
	11C	25-Sep-07	1.0 - 1.50	25.	0.25	24.8
	11-D	25-Sep-07	1.5 - 2.00	28.2	0.28	27.9
	11-E	25-Sep-07	2.0 - 2.50	17.7	0.18	17.5
	11-F	25-Sep-07	2.5 - 3.00	27.1	0.27	26.8
12	012	15-Jul-04	0.0 - 0.25	410.	4.1	406
	12C	30-Aug-07	1.0 - 1.50	40.	0.4	39.6
13	013	15-Jul-04	0.0 - 0.25	1,210.	12.1	1,198
	013B	16-Oct-04	0.25 - 0.50	31.9	0.32	31.6
14	014	15-Jul-04	0.0 - 0.25	832.	8.32	823.7
	014B	16-Oct-04	0.25 - 0.50	117.	1.17	115.8
	014C	16-Oct-04	0.5 - 0.75	48.8	0.49	48.3
15	015	15-Jul-04	0.0 - 0.25	525.	5.25	520

TABLE RA-2 – Detected Trivalent and Hexavalent Chromium Concentrations in Soil- Canyon Creek Trestle

Screening Levels in mg/kg (ppm)				Total Chromium	Chromium VI	Chromium III
			Human Health: Construction Worker ==>	na	43 [a]	460,000 [a]
			Default Naturally-Occurring Background Level ==>		130 [b]	86 [c]
	15-B	29-Aug-07	0.5 - 1.00	40.9	0.41	40.49
16	016	15-Jul-04	0.0 - 0.25	442.	4.42	437.6
	016B	16-Oct-04	0.25 - 0.50	348.	3.48	344.5
	016C	16-Oct-04	0.5 - 0.75	87.9	0.88	87.
	16-D	26-Sep-07	1.5 - 2.00	40.9	0.41	40.5
	16-E	26-Sep-07	2.0 - 2.50	49.4	0.49	48.91
17	017-A	15-Jul-04	0.0 - 0.25	93.5	0.94	93
	17-B	26-Sep-07	0.5 - 1.00	39.9	0.4	39.5
	17-C	26-Sep-07	1.0 - 1.50	46.9	0.47	46.4
	17-D	26-Sep-07	1.5 - 2.00	38.4	0.38	38.
	17-E	26-Sep-07	2.0 - 2.50	36.7	0.37	36.33
18	018	15-Jul-04	0.0 - 0.25	290.	2.9	287.1
19	019	15-Jul-04	0.0 - 0.25	956.	9.56	946.4
	19-B	26-Sep-07	0.5 - 1.00	99.3	0.99	98.3
	19-D	26-Sep-07	1.5 - 2.00	52.3	0.52	51.8
	19-E	26-Sep-07	2.0 - 2.50	53.4	0.53	52.87
20	020	15-Jul-04	0.0 - 0.25	997.	9.97	987
	20-B	28-Aug-07	0.5 - 1.00	48.5	0.49	48.
	20C	28-Aug-07	1.0 - 1.50	29.8	0.3	29.5
21	021	15-Jul-04	0.0 - 0.25	598.	5.98	592
	021B	16-Oct-04	0.25 - 0.50	70.7	0.71	70.
	021C	16-Oct-04	0.5 - 0.75	*na*	na	na
	21-C	30-Aug-07	1.0 - 1.50	55.2	0.55	54.6
	21-D	proposed	1.5 - 2.00	38.5	0.39	38.1
	21-E	proposed	2.0 - 2.50	44.7	0.45	44.25
22	022	15-Jul-04	0.0 - 0.25	149.	1.49	148
	22-B	28-Aug-07	0.5 - 1.00	41.2	0.41	40.79
23	023	15-Jul-04	0.0 - 0.25	714.	7.14	706.86
24	024	15-Jul-04	0.0 - 0.25	1,010.	10.1	999.9
25	025	15-Jul-04	0.0 - 0.25	721.	7.21	713.8
	25-B	28-Aug-07	0.5 - 1.00	36.7	0.37	36.33
26	026	15-Jul-04	0.0 - 0.25	1,050.	10.5	1,040
	026B	16-Oct-04	0.25 - 0.50	384.	3.84	380.2
	026C	16-Oct-04	0.5 - 0.75	82.	0.82	81.2
	26-C	28-Aug-07	1.0 - 1.50	80.3	0.8	79.5
	26-D	28-Aug-07	1.5 - 2.00	57.1	0.57	56.5
	26-E	28-Aug-07	2.0 - 2.50	48.7	0.49	48.21
27	027	15-Jul-04	0.0 - 0.25	1,030.	10.3	1,020
	027B	16-Oct-04	0.25 - 0.50	81.6	0.82	80.8
	027C	16-Oct-04	0.5 - 0.75	*na*	na	na
	27-C	28-Aug-07	1.0 - 1.50	67.	0.67	66.3
	27-D	26-Sep-07	1.5 - 2.00	49.9	0.5	49.4
	27-DD	26-Sep-07	1.5 - 2.00	48.5	0.49	48.0
	27-E	26-Sep-07	2.0 - 2.50	41.4	0.41	40.99
28	028	15-Jul-04	0.0 - 0.25	313.	3.13	309.87
29	029	15-Jul-04	0.0 - 0.25	1,290.	12.9	1,277
	029B	16-Oct-04	0.25 - 0.50	44.3	0.44	43.9
	029C	16-Oct-04	0.5 - 0.75	*na*	na	na
	29-C	28-Aug-07	1.0 - 1.50	32.	0.32	31.68
30	030	15-Jul-04	0.0 - 0.25	862.	8.62	853.38
31	031	15-Jul-04	0.0 - 0.25	3.47	0.03	3.44
32	032	15-Jul-04	0.0 - 0.25	13.8	0.14	13.66
33	033	15-Jul-04	0.0 - 0.25	273.	2.73	270.27
34	034	15-Jul-04	0.0 - 0.25	22.5	0.23	22.28
35	035	15-Jul-04	0.0 - 0.25	40.5	0.41	40.1
36	036	15-Jul-04	0.0 - 0.25	31.5	0.32	31.19

TABLE RA-2 – Detected Trivalent and Hexavalent Chromium Concentrations in Soil- Canyon Creek Trestle

Screening Levels in mg/kg (ppm)				Total Chromium	Chromium VI	Chromium III
Human Health: Construction Worker ==>				na	43 [a]	460,000 [a]
Default Naturally-Occurring Background Level ==>					130 [b]	86 [c]
37	037A	16-Oct-04	0.0 - 0.25	32.9	0.33	32.57
38	038A	16-Oct-04	0.0 - 0.25	30.5	0.31	30.2
39	039A	16-Oct-04	0.0 - 0.25	75.	0.75	74.3
	039B	16-Oct-04	0.25 - 0.50	*na*	na	na
	39-B	30-Aug-07	0.50 - 1.00	51.1	0.51	50.6
	39C	30-Aug-07	1.0 - 1.50	42.3	0.42	41.88
40	040A	16-Oct-04	0.0 - 0.25	83.1	0.83	82.27
41	041A	16-Oct-04	0.0 - 0.25	35.7	0.36	35.34
42	042A	16-Oct-04	0.0 - 0.25	48.6	0.49	48.11
43	043A	16-Oct-04	0.0 - 0.25	72.5	0.73	
	43-B	28-Aug-07	0.5 - 1.00	39.4	0.39	39.01
44	044A	16-Oct-04	0.0 - 0.25	65.	0.65	64.35
45	045A	16-Oct-04	0.0 - 0.25	136.	1.36	135
	045B	16-Oct-04	0.25 - 0.50	69.3	0.69	68.61
46	046A	16-Oct-04	0.0 - 0.25	109.	1.09	107.91
47	047A	16-Oct-04	0.0 - 0.25	266.	2.66	263
	047B	16-Oct-04	0.25 - 0.50	33.3	0.33	33.
	47-B	29-Aug-07	0.50 - 1.00	37.2	0.37	36.83
48	048A	16-Oct-04	0.0 - 0.25	43.1	0.43	42.67
49	049A	16-Oct-04	0.0 - 0.25	51.1	0.51	50.59
50	050A	16-Oct-04	0.0 - 0.25	75.	0.75	74.25
51	051A	16-Oct-04	0.0 - 0.25	59.	0.59	58.41
52	052A	16-Oct-04	0.0 - 0.25	929.	9.29	920
	052B	16-Oct-04	0.25 - 0.50	49.1	0.49	48.6
	52-B	29-Aug-07	0.50 - 1.00	34.3	0.34	33.96
53	053A	16-Oct-04	0.0 - 0.25	40.6	0.41	40.19
54	054A	16-Oct-04	0.0 - 0.25	9.76	0.1	10
	54-B	30-Aug-07	0.5 - 1.00	53.1	0.53	52.6
	54C	30-Aug-07	1.0 - 1.50	46.4	0.46	45.94
55	055A	16-Oct-04	0.0 - 0.25	49.6	0.5	49.1
56	056A	16-Oct-04	0.0 - 0.25	79.4	0.79	78.61
57	057A	16-Oct-04	0.0 - 0.25	95.6	0.96	95
	57-B	29-Aug-07	0.5 - 1.00	34.9	0.35	34.55
58	058A	16-Oct-04	0.0 - 0.25	165.	1.65	163
	058-B	16-Oct-04	0.25 - 0.50	73.7	0.74	73.
	58-B	26-Sep-07	0.5 - 1.00	32.8	0.33	32.5
	58-C	26-Sep-07	1.0 - 1.50	29.8	0.3	29.5
59	059A	16-Oct-04	0.0 - 0.25	539.	5.39	534
	059B	16-Oct-04	0.25 - 0.50	187.	1.87	185.1
	59-B	28-Aug-07	0.50 - 1.00	42.8	0.43	42.37
60	060A	16-Oct-04	0.0 - 0.25	59.2	0.59	58.61
61	61-A	30-Aug-07	0.0 - 0.50	33.8	0.34	33
	61B	30-Aug-07	0.5 - 1.00	36.	0.36	35.6
	61C	30-Aug-07	1.0 - 1.50	48.2	0.48	47.72
62	62-A	30-Aug-07	0.0 - 0.50	51.6	0.52	51
	62B	30-Aug-07	0.5 - 1.00	41.4	0.41	41.
	62C	30-Aug-07	1.0 - 1.50	58.9	0.59	58.31
63	63-A	30-Aug-07	0.0 - 0.50	50.5	0.51	50
	63B	30-Aug-07	0.5 - 1.00	34.8	0.35	34.5
	63C	30-Aug-07	1.0 - 1.50	48.2	0.48	47.72
64	64-A	28-Aug-07	0.0 - 0.50	36.6	0.37	36.23
65	65-A	28-Aug-07	0.0 - 0.50	37.7	0.38	37
	65-B	28-Aug-07	0.5 - 1.00	26.	0.26	25.7
	65-C	28-Aug-07	1.0 - 1.50	44.5	0.45	44.06
66	66-A	28-Aug-07	0.0 - 0.50	47.6	0.48	47
	66-B	28-Aug-07	0.5 - 1.00	41.2	0.41	40.8

TABLE RA-2 – Detected Trivalent and Hexavalent Chromium Concentrations in Soil- Canyon Creek Trestle

Screening Levels in mg/kg (ppm)				Total Chromium	Chromium VI	Chromium III
			Human Health: Construction Worker ==>	na	43 [a]	460,000 [a]
			Default Naturally-Occurring Background Level ==>		130 [b]	86 [c]
	66-C	28-Aug-07	1.0 - 1.50	53.2	0.53	52.67
67	67-A	28-Aug-07	0.0 - 0.50	81.3	0.81	80
	67-B	28-Aug-07	0.5 - 1.00	50.6	0.51	50.1
	67-C	28-Aug-07	1.0 - 1.50	50.5	0.51	50.
68	68-A	30-Aug-07	0.0 - 0.50	65.3	0.65	65
	68-AD	30-Aug-07	0.0 - 0.50	60.5	0.61	59.9
	68-B	30-Aug-07	0.5 - 1.00	48.2	0.48	47.7
	68-C	30-Aug-07	1.0 - 1.50	55.4	0.55	54.85
69	69-A	29-Aug-07	0.0 - 0.50	37.8	0.38	37.42
70	70-A	28-Aug-07	0.0 - 0.50	52.9	0.53	52
	70-B	28-Aug-07	0.5 - 1.00	37.4	0.37	37.
	70-C	28-Aug-07	1.0 - 1.50	47.	0.47	46.53
71	71-A	28-Aug-07	0.0 - 0.50	40.5	0.41	40
	71-AD	28-Aug-07	0.0 - 0.50	41.1	0.41	40.69
72	72-A	29-Aug-07	0.0 - 0.50	27.9	0.28	27.62
73	73-A	29-Aug-07	0.0 - 0.50	38.1	0.38	37.72
74	74-A	29-Aug-07	0.0 - 0.50	38.8	0.39	38.41
75	75-A	29-Aug-07	0.0 - 0.50	33.7	0.34	33.36
76	76-A	29-Aug-07	0.0 - 0.50	25.4	0.25	25.15
77	77-A	29-Aug-07	0.0 0.50	37.6	0.38	37.22
	78-B	25-Sep-07	0.5 - 1.00	17.9	0.18	18
	78-C	25-Sep-07	1.0 - 1.50	6.57	0.07	6.5
	78-D	25-Sep-07	1.5 - 2.00	4.28	0.04	4.2
	78-E	25-Sep-07	2.0 - 2.50	20.1	0.2	19.9
79	79-A	26-Sep-07	0.0 - 0.50	*na*	na	na
	79-B	26-Sep-07	0.5 - 1.00	*na*	na	na
	79-C	26-Sep-07	1.0 - 1.50	41.	0.41	40.6
	79-D	26-Sep-07	1.5 - 2.00	43.2	0.43	42.8
	79-E	26-Sep-07	2.0 - 2.50	39.6	0.4	39.2
80	80-A	25-Sep-07	0.0 - 0.50	47.1	0.47	46.63
81	81-A	25-Sep-07	0.0 - 0.50	30.7	0.31	30.39
82	82-A	27-Sep-07	0.0 - 0.50	41.8	0.42	41.38
	82-AD	27-Sep-07	0.0 - 0.50	41.9	0.42	41.48
83	83-A	27-Sep-07	0.0 - 0.50	51.8	0.52	51.28
84	84-A	27-Sep-07	0.0 - 0.50	42.5	0.43	42.08
85	85-A	27-Sep-07	0.0 - 0.50	64.3	0.64	63.66
86	86-A	25-Sep-07	0.0 - 0.50	45.	0.45	44.55
87	87-A	25-Sep-07	0.0 - 0.50	48.8	0.49	48.31
88S	88-S	27-Sep-07	0.0 - 0.50	30.8	0.31	30.49
89S	89-S	27-Sep-07	0.0 - 0.50	99.6	1.	98.6

a - DEQ Risk-Based Concentrations (RBCs) for Occupational Worker (Revised November 15, 2011).
b - EPA, 2008. Ecological Soil Screening Levels for Chromium, Interim Final.
c - Oregon Background Metals Evaluation, GeoEngineers under contract to DEQ (2010 and 2011), Table 8, 90% UCL for total chromium

Orange Highlited = Relevant Screening Value
Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency

ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE RA-3 – Detected Total Metals Concentrations in Soil and Sediment - Pint Creek Trestle

Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium[b]	Lead	Silver
Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	e Depth	Arsenic	Cadmium	Chromium	Lead	Silver
-01	-01-A	1-Sep-11	0.0 - 0.50	8.31	1.2 U	85.7	147.	1.2 U
	-01-B	1-Sep-11	0.50 - 1.00	2.5 U	1.25 U	46.1	15.8	1.25 U
	-01-C	1-Sep-11	1.0 - 1.50	2.69	1.26 U	50.6	9.8	1.26 U
-02	-02-A	1-Sep-11	0.0 - 0.50	2.52 U	1.26 U	47.1	81.8	1.26 U
	-02-B	1-Sep-11	0.50 - 1.00	2.65 U	na	46.9	34.3	na
	-02-C	1-Sep-11	1.0 - 1.50	2.7 U	na	44.4	13.8	na
-03	-03-A	1-Sep-11	0.0 - 0.50	12.3	1.15 U	62.5	267.	1.15 U
	-03-AD	1-Sep-11	0.0 - 0.50	**17.6**	na	62.8	**840.**	na
	-03-B	1-Sep-11	0.50 - 1.00	2.56 U	na	60.4	26.8	na
	-03-C	4-Oct-11	1.0 - 1.50	2.85 U	na	56.7	7.62	na
	-03-D	4-Oct-11	1.5 - 2.00	3. U	na	60.9	9.4	na
-04	-04-A	1-Sep-11	0.0 - 0.50	10.2	1.1 U	41.8	**1,370.**	1.1 U
	-04-AD	1-Sep-11	0.0 - 0.50	8.72	na	44.2	**1,240.**	na
	-04-B	1-Sep-11	0.50 - 1.00	2.67 U	na	56.5	90.5	na
	-04-C	1-Sep-11	1.0 - 1.50	2.86 U	na	71.5	43.1	na
	-04-D	4-Oct-11	1.5 - 2.00	2.87 U	na	54.2	22.8	na
	-04-E	4-Oct-11	2.0 - 2.50	2.65 U	na	58.7	21.7	na
-05	-05-A	1-Sep-11	0.0 - 0.50	3.88	1.15 U	39.7	**913.**	1.15 U
	-05-B	1-Sep-11	0.50 - 1.00	6.53	na	44.3	559.	na
	-05-C	1-Sep-11	1.0 - 1.50	2.85	na	52.5	192.	na
	-05-D	4-Oct-11	1.5 - 2.00	2.54 U	na	50.4	26.3	na
	-05-E	4-Oct-11	2.0 - 2.50	2.58 U	na	54.1	36.	na
-06	-06-A	2-Sep-11	0.0 - 0.50	5.47	1.11 U	47.1	**834.**	1.11 U
	-06-B	2-Sep-11	0.50 - 1.00	2.63 U	1.31 U	85.1	31.4	1.31 U
	-06-C	2-Sep-11	1.0 - 1.50	2.92 U	na	**91.1**	94.6	na
	-06-C	4-Oct-11	1.0 - 1.50	2.91 U	na	72.5	62.6	na
	-06-D	4-Oct-11	1.5 - 2.00	2.72 U	na	55.1	14.	na
-07	-07-A	6-Sep-11	0.0 - 0.50	2.53 U	1.26 U	67.4	9.63	1.26 U
	-07-B	6-Sep-11	0.50 - 1.00	2.91 U	1.45 U	81.6	7.68	1.45 U
	-07-C	6-Sep-11	1.0 - 1.50	2.73 U	1.37 U	**87.3**	9.93	1.37 U
-08	-08-A	6-Sep-11	0.0 - 0.50	2.57 U	1.28 U	69.3	19.8	1.28 U
	-08-AD	6-Sep-11	0.0 - 0.50	2.41 U	na	78.8	18.2	na
	-08-B	6-Sep-11	0.50 - 1.00	2.63 U	na	78.5	10.	na
	-08-C	6-Sep-11	1.0 - 1.50	2.63 U	na	74.2	27.7	na
	-08-D	4-Oct-11	1.5 - 2.00	2.96 U	na	77.3	14.2	na
	-08-DD	4-Oct-11	1.5 - 2.00	2.87 U	na	59.2	11.9	na
	-08-E	4-Oct-11	2.0 - 2.50	2.63 U	na	65.7	9.83	na
-09	-09-A	6-Sep-11	0.0 - 0.50	2.85 U	1.43 U	45.4	9.57	1.43 U

TABLE RA-3 – Detected Total Metals Concentrations in Soil and Sediment - Pint Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
			Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
			Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
	-09-B	6-Sep-11	0.50 - 1.00	2.45 U	1.23 U	56.2	12.4	1.23 U
	-09-C	6-Sep-11	1.0 - 1.50	2.5 U	1.25 U	54.5	8.58	1.25 U
-10	-10-A	6-Sep-11	0.0 - 0.50	2.97 U	1.48 U	51.4	20.7	1.2 U
	-10-B	6-Sep-11	0.50 - 1.00	2.61 U	1.3 U	66.7	7.43	1.3 U
	-10-C	6-Sep-11	1.0 - 1.50	2.97 U	1.48 U	54.6	6.13	1.48 U
-11	-11-A	1-Sep-11	0.0 - 0.50	2.56 U	1.28 U	45.8	7.98	1.28 U
	-11AD	1-Sep-11	0.0 - 0.50	2.64 U	1.32 U	49.	22.3	1.32 U
	-11-B	1-Sep-11	0.50 - 1.00	2.63 U	na	53.2	9.58	na
	-11-C	1-Sep-11	1.0 - 1.40	2.58 U	na	56.7	8.55	na
-12	-12-A	6-Sep-11	0.0 - 0.50	2.5 U	1.25 U	36.2	80.6	1.25 U
	-12-AD	6-Sep-11	0.0 - 0.50	2.71 U	1.36 U	44.7	91.6	1.36 U
	-12-B	6-Sep-11	0.50 - 1.00	2.72 U	1.36 U	48.2	27.5	1.36 U
	-12-C	6-Sep-11	1.0 - 1.50	2.7 U	1.35 U	42.	25.	1.35 U
	-12-D	30-Sep-11	1.5 - 2.00	2.43 U	na	36.2	5.69	na
	-12-E	30-Sep-11	2.0 - 2.50	2.31 U	na	42.6	8.64	na
-13	-13-A	7-Sep-11	0.0 - 0.50	2.41 U	1.21 U	59.	67.4	1.21 U
	-13-B	7-Sep-11	0.50 - 1.00	2.63 U	1.31 U	**85.1**	13.2	1.31 U
	-13-C	7-Sep-11	1.0 - 1.50	2.61 U	1.31 U	**88.5**	6.56	1.31 U
-14	-14-A	6-Sep-11	0.0 - 0.50	2.3 U	1.15 U	60.8	10.4	1.15 U
	-14-B	6-Sep-11	0.50 - 1.00	2.58 U	1.29 U	66.3	8.64	1.29 U
	-14-C	6-Sep-11	1.0 - 1.50	2.6 U	1.3 U	65.9	7.54	1.3 U
-15	-15-A	1-Sep-11	0.0 - 0.50	2.63 U	1.31 U	46.8	22.1	1.31 U
	-15-B	1-Sep-11	0.50 - 1.00	2.58 U	na	44.2	8.28	na
	-15-C	1-Sep-11	1.0 - 1.50	2.68 U	na	44.	7.17	na
-16	-16-A	6-Sep-11	0.0 - 0.50	2.4 U	1.2 U	53.	10.1	1.2 U
	-16-B	6-Sep-11	0.50 - 1.00	2.44 U	1.22 U	52.2	7.7	1.22 U
	-16-C	6-Sep-11	1.0 - 1.50	2.48 U	1.24 U	50.5	7.41	1.24 U
-17	-17-A	1-Sep-11	0.0 - 0.50	2.49 U	1.25 U	44.	29.5	1.25 U
	-17-B	1-Sep-11	0.50 - 1.00	2.65 U	na	42.1	11.4	na
	-17-C	1-Sep-11	1.0 - 1.50	2.69 U	na	45.8	8.77	na
-18	-18-A	1-Sep-11	0.0 - 0.50	2.55 U	1.28 U	43.5	106.	1.28 U
	-18-B	1-Sep-11	0.50 - 1.00	2.53 U	na	51.6	11.2	na
	-18-C	1-Sep-11	1.0 - 1.50	2.65 U	na	42.6	11.7	na
-19	-19-A	7-Sep-11	0.0 - 0.50	2.63 U	1.31 U	55.4	28.2	1.31 U
	-19-B	7-Sep-11	0.50 - 1.00	2.6 U	1.3 U	62.5	14.2	1.3 U
	-19-C	7-Sep-11	1.0 - 1.50	2.7 U	1.35 U	58.1	9.77	1.35 U
-20	-20-A	6-Sep-11	0.0 - 0.50	2.6 U	1.3 U	64.6	19.1	1.3 U
	-20-B	6-Sep-11	0.50 - 1.00	2.67 U	1.33 U	66.3	7.46	1.33 U
	-20-C	6-Sep-11	1.0 - 1.50	2.48 U	1.24 U	72.1	7.13	1.24 U
-21	-21-A	6-Sep-11	0.0 - 0.50	2.61	1.27 U	54.1	10.8	1.27 U
	-21-B	6-Sep-11	0.50 - 1.00	3.04	1.17 U	64.8	8.84	1.17 U
	-21-C	6-Sep-11	1.0 - 1.50	3.57	1.25 U	75.	9.68	1.25 U

TABLE RA-3 – Detected Total Metals Concentrations in Soil and Sediment - Pint Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
			Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
			Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
-22	-22-A	1-Sep-11	0.0 - 0.50	2.43 U	1.21 U	44.2	10.2	1.21 U
-23	-23-A	1-Sep-11	0.0 - 0.50	2.59	1.25 U	35.2	16.6	1.25 U
-24	-24-A	7-Sep-11	0.0 - 0.50	2.6 U	1.3 U	50.	15.5	1.3 U
	-24-B	7-Sep-11	0.50 - 1.00	2.79 U	1.4 U	60.4	10.2	1.4 U
	-24-C	7-Sep-11	1.0 - 1.50	2.6 U	1.3 U	64.6	7.51	1.3 U
-25	-25-A	7-Sep-11	0.0 - 0.50	2.48 U	1.24 U	42.1	8.85	1.24 U
-26	-26-A	1-Sep-11	0.0 - 0.50	2.46 U	1.23 U	51.5	23.6	1.23 U
	-26-B	1-Sep-11	0.50 - 1.00	2.74 U	na	57.6	8.54	na
	-26-C	1-Sep-11	1.0 - 1.50	2.72 U	na	52.	7.54	na
-27	-27-A	1-Sep-11	0.0 - 0.50	2.76 U	1.38 U	54.2	90.5	1.38 U
	-27-B	1-Sep-11	0.50 - 1.00	2.84 U	na	58.1	9.49	na
	-27-C	1-Sep-11	1.0 - 1.50	2.7 U	na	56.3	7.89	na
-28	-28-A	1-Sep-11	0.0 - 0.50	9.43	1.26 U	57.6	**830.**	1.26 U
	-28-B	1-Sep-11	0.50 - 1.00	2.91 U	na	46.7	30.4	na
	-28-C	1-Sep-11	1.0 - 1.50	2.92 U	na	48.8	56.	na
	-28-D	4-Oct-11	1.5 - 2.00	2.83 U	na	57.5	12.1	na
	-28-E	4-Oct-11	2.0 - 2.50	2.67 U	na	45.9	11.5	na
-29	-29-A	2-Sep-11	0.0 - 0.50	**15.1**	0.986 U	44.4	**880.**	0.986 U
	-29-B	2-Sep-11	0.50 - 1.00	3.74	1.25 U	67.8	169.	1.25 U
	-29-C	2-Sep-11	1.0 - 1.50	2.84 U	1.42 U	53.7	102.	1.42 U
	-29-D	30-Sep-11	1.5 - 2.00	3.1 U	na	42.2	25.5	na
	-29-E	30-Sep-11	2.0 - 2.50	3.56 U	na	42.3	36.	na
	-29-F	30-Sep-11	2.5 - 3.00	3.11 U	na	43.5	20.9	na
-30	-30-A	2-Sep-11	0.0 - 0.50	9.34	1.4 U	46.5	692.	1.4 U
	-30-B	2-Sep-11	0.50 - 1.00	2.59 U	1.3 U	74.6	39.6	1.3 U
	-30-C	2-Sep-11	1.0 - 1.50	2.6 U	1.3 U	77.8	16.5	1.3 U
-31	-31-A	2-Sep-11	0.0 - 0.50	11.6	1.14 U	62.7	451.	1.14 U
	-31-AD	2-Sep-11	0.0 - 0.50	11.	1.27 U	68.9	326.	1.27 U
	-31-B	2-Sep-11	0.50 - 1.00	2.95 U	1.47 U	60.1	8.87	1.47 U
	-31-C	2-Sep-11	1.0 - 1.50	3.15 U	1.58 U	56.7	7.8	1.58 U
-32	-32-A	2-Sep-11	0.0 - 0.50	2.58	1.26 U	76.8	25.	1.26 U
	-32-B	2-Sep-11	0.50 - 1.00	2.56 U	1.28 U	**115.**	8.62	1.28 U
	-32-C	2-Sep-11	1.0 - 1.50	2.66 U	1.33 U	**90.**	8.32	1.33 U
-33	-33-A	6-Sep-11	0.0 - 0.50	2.74 U	1.37 U	**78.5**	17.6	1.37 U
	-33-B	6-Sep-11	0.50 - 1.00	2.75 U	1.37 U	**92.1**	7.6	1.37 U
	-33-C	6-Sep-11	1.0 - 1.50	2.84 U	1.42 U	**98.3**	6.23	1.42 U
-34	-34-A	6-Sep-11	0.0 - 0.50	2.57 U	1.29 U	44.2	39.	1.29 U
	-34-B	6-Sep-11	0.50 - 1.00	2.71 U	1.35 U	54.8	9.13	1.35 U
	-34-C	6-Sep-11	1.0 - 1.50	2.98 U	1.49 U	74.	7.39	1.49 U
-35	-35-A	2-Sep-11	0.0 - 0.50	2.9 U	1.45 U	46.	132.	1.45 U
	-35-B	2-Sep-11	0.50 - 1.00	2.57 U	1.28 U	63.8	63.8	1.28 U
	-35-C	2-Sep-11	1.0 - 1.50	2.69 U	1.35 U	58.4	27.	1.35 U

TABLE RA-3 – Detected Total Metals Concentrations in Soil and Sediment - Pint Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
			Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
			Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
	-35-D	3-Oct-11	1.5 - 2.00	2.35 U	na	52.9	5.35	na
	-35-E	3-Oct-11	2.0 - 2.50	2.41 U	na	41.2	3.92	na
-36	-36-A	6-Sep-11	0.0 - 0.50	2.9 U	1.45 U	57.9	54.6	1.45 U
	-36-B	6-Sep-11	0.50 - 1.00	2.7 U	1.35 U	72.	8.42	1.35 U
	-36-C	6-Sep-11	1.0 - 1.50	2.47 U	1.24 U	65.	7.64	1.24 U
-37	-37-A	2-Sep-11	0.0 - 0.50	2.95 U	1.48 U	55.1	10.5	1.48 U
	-37-B	2-Sep-11	0.50 - 1.00	2.49 U	1.24 U	76.5	7.62	1.24 U
	-37-C	2-Sep-11	1.0 - 1.50	2.56 U	1.28 U	**89.7**	7.09	1.28 U
-38	-38-A	2-Sep-11	0.0 - 0.50	2.55 U	1.27 U	69.3	17.4	1.27 U
	-38-B	2-Sep-11	0.50 - 1.00	2.63 U	1.32 U	73.8	10.8	1.32 U
	-38-C	2-Sep-11	1.0 - 1.50	2.62 U	1.31 U	74.	7.49	1.31 U
-39	-39-A	2-Sep-11	0.0 - 0.50	2.56 U	1.28 U	69.	47.1	1.28 U
	-39-B	2-Sep-11	0.50 - 1.00	2.44 U	1.22 U	68.3	33.8	1.22 U
	-39-C	2-Sep-11	1.0 - 1.50	2.41 U	1.2 U	59.8	31.9	1.2 U
	-39-D	3-Oct-11	1.5 - 2.00	2.45 U	na	65.6	28.4	na
	-39-E	3-Oct-11	2.0 - 2.50	2.53 U	na	**90.7**	12.7	na
-40	-40-A	2-Sep-11	0.0 - 0.50	2.66 U	1.33 U	34.2	35.5	1.33 U
	-40-B	2-Sep-11	0.0 - 0.50	2.43 U	1.22 U	42.	20.8	1.22 U
	-40-BD	2-Sep-11	0.50 - 1.00	2.64 U	1.32 U	46.1	19.1	1.32 U
	-40-C	2-Sep-11	1.0 - 1.50	2.41 U	1.21 U	41.	5.23	1.21 U
-41	-41-A	6-Sep-11	0.0 - 0.50	2.71 U	1.35 U	67.2	33.1	1.35 U
	-41-B	6-Sep-11	0.50 - 1.00	2.38 U	1.19 U	52.8	9.27	1.19 U
	-41-C	6-Sep-11	1.0 - 1.50	2.44 U	1.22 U	66.7	8.52	1.22 U
-42	-42-A	6-Sep-11	0.0 - 0.50	2.36 U	1.18 U	35.6	16.4	1.18 U
-43	-43-A	2-Sep-11	0.0 - 0.50	2.51 U	1.26 U	64.5	19.7	1.26 U
	-43-B	2-Sep-11	0.50 - 1.00	2.61 U	1.31 U	70.2	8.1	1.31 U
	-43-C	2-Sep-11	1.0 - 1.50	2.75 U	1.38 U	70.2	6.55	1.38 U
-44	-44-A	6-Sep-11	0.0 - 0.50	2.44 U	1.22 U	**92.5**	22.9	1.22 U
	-44-B	6-Sep-11	0.50 - 1.00	2.58 U	1.29 U	**102.**	13.3	1.29 U
	-44-C	6-Sep-11	1.0 - 1.50	2.49 U	1.24 U	**86.7**	7.44	1.24 U
-45S	-45S	7-Sep-11	0.00 - 0.50	3.01 U	1.5 U	34.7	4.41	1.5 U
-46S	-46S	7-Sep-11	0.00 - 0.50	2.89 U	1.45 U	19.4	12.3	1.45 U
-47S	-47S	7-Sep-11	0.00 - 0.50	2.54 U	1.27 U	18.8	5.32	1.27 U
-48S	-48S	7-Sep-11	0.00 - 0.50	2.87 U	1.43 U	39.6	7.47	1.43 U
	-48SD	7-Sep-11	0.00 - 0.50	2.93 U	1.46 U	37.3	7.99	1.46 U
49	-49-A	3-Oct-11	0.0 - 0.50	2.68 U	na	53.1	7.55	na
50	-50-A	3-Oct-11	0.0 - 0.50	2.52 U	na	66.9	41.3	na
	-50-AD	3-Oct-11	0.0 - 0.50	2.55 U	na	66.7	45.2	na
	-50-B	3-Oct-11	0.50 - 1.00	2.44 U	na	72.2	16.5	na
51	-51-A	3-Oct-11	0.0 - 0.50	2.8 U	na	70.6	19.7	na
52	-52-A	3-Oct-11	0.0 - 0.50	2.55	na	47.3	22.1	na
53	-53-A	3-Oct-11	0.0 - 0.50	2.6 U	na	40.2	10.4	na

TABLE RA-3 – Detected Total Metals Concentrations in Soil and Sediment - Pint Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
Human Health: Construction Worker ==>				13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
Default Naturally-Occurring Background Level ==>				7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
54	-54-A	3-Oct-11	0.0 - 0.50	2.66 U	na	87.7	6.7	na
55	-55-A	3-Oct-11	0.0 - 0.50	2.61 U	na	76.4	7.12	na
56	-56-A	3-Oct-11	0.0 - 0.50	2.42 U	na	40.9	13.3	na
57	-57-A	30-Sep-11	0.0 - 0.50	2.38 U	na	40.1	10.6	na
	-57-AD	30-Sep-11	0.00 - 0.50	2.35	na	40.6	10.4	na
58	-58-A	30-Sep-11	0.0 - 0.50	2.56 U	na	58.1	20.4	na
	-58-B	30-Sep-11	0.50 - 1.00	2.49 U	na	81.6	10.3	na
58S	-59S	16-May-12	0.0 - 0.50	3.05	na	39.4	9.02	na
59S	-60S	16-May-12	0.50 - 1.00	4.4	na	46.1	5.9	na

a = DEQ Risk-Based Concentrations (RBCs) for Construction Worker (Revised November 15, 2011).
b = The lowest of the chrome screening values between Chrome III and VI. Assumes 100 percent Chrome VI. Chromium speciation not performed at this trestle.
c = Table 1, Human Health Risk Assessment Guidance, DEQ (2010)
d - GeoEngineers, Oregon Background Metals Evaluation, 2010, Table 8, 90% UCL for total chromium
Orange Highlighted = Relevant Screening Value
Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
58S = Sediment sample location

mg/kg = milligrams/kilogram
na = no analysis
nc = no criteria

ppm = parts per million
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE RA-4 – Detected Metals Concentrations in Soil and Sediment - Cripple Creek Trestle

Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium[b]	Lead	Silver
Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Cadmium	Chromium	Lead	Silver
-01	-01-A	9-Sep-11	0.0 - 0.50	2.38 U	1.19 U	46.7	23.4	1.19 U
	-01-B	9-Sep-11	0.50 - 1.00	2.38 U	1.19 U	59.	10.3	1.19 U
	-01-C	9-Sep-11	1.0 - 1.50	2.45 U	1.22 U	58.4	8.6	1.22 U
-02	-02-A	12-Sep-11	0.0 - 0.50	7.91	1.19 U	50.1	171.	1.19 U
	-02-B	12-Sep-11	0.50 - 1.00	2.42 U	1.21 U	44.5	46.7	1.21 U
	-02-C	12-Sep-11	1.0 - 1.50	2.61 U	1.31 U	44.6	53.5	1.31 U
	-02-D	29-Sep-11	1.5 - 2.00	2.56 U	na	32.2	10.4	na
	-02-E	29-Sep-11	2.0 - 2.50	2.35 U	na	36.2	8.9	na
-03	-03-A	12-Sep-11	0.0 - 0.50	3.99	1.21 U	24.4	26.	1.21 U
	-03-B	12-Sep-11	0.50 - 1.00	3.29	1.16 U	26.5	24.	1.16 U
-04	-04-A	12-Sep-11	0.0 - 0.50	2.2 U	1.1 U	11.8	32.3	1.1 U
	-04-B	12-Sep-11	0.50 - 1.00	2.3 U	1.15 U	15.4	8.53	1.15 U
-05	-05-A	12-Sep-11	0.0 - 0.50	**23.3**	1.15 U	57.7	221.	1.15 U
	-05-B	12-Sep-11	0.50 - 1.00	2.46 U	1.23 U	46.6	131.	1.23
	-05-C	12-Sep-11	1.0 - 1.50	2.48 U	1.24 U	35.	56.8	1.24 U
	-05-D	29-Sep-11	1.5 - 2.00	2.44 U	na	47.3	18.8	na
	-05-E	29-Sep-11	2.0 - 2.50	2.36 U	na	40.	20.8	na
-06	-06-A	12-Sep-11	0.0 - 0.50	**14.9**	1.05 U	45.4	520.	1.05 U
	-06-B	12-Sep-11	0.50 - 1.00	2.51 U	1.25 U	46.7	125.	1.25 U
	-06-BD	12-Sep-11	0.50 - 1.00	2.38 U	1.19 U	54.5	135.	1.19 U
	-06-C	12-Sep-11	1.0 - 1.50	2.38 U	1.19 U	53.5	51.6	1.19 U
	-06-D	29-Sep-11	1.5 - 2.00	2.23 U	na	37.6	38.9	na
	-06-E	29-Sep-11	2.0 - 2.50	2.4 U	na	33.8	35.7	na
	-06F	29-Sep-11	2.5 - 3.00	2.5 U	na	44.3	9.18	na
-07	-07-A	12-Sep-11	0.0 - 0.50	3.41	1.13 U	18.9	175.	1.13 U
	-07-B	12-Sep-11	0.50 - 1.00	2.17 U	1.08 U	12.3	92.3	1.08 U
	-07-C	12-Sep-11	1.0 - 1.50	2.21 U	1.11 U	22.1	82.2	1.11 U
	-07-D	28-Sep-11	1.5 - 2.00	2.14 U	na	15.2	11.4	na
	-07-E	28-Sep-11	2.0 - 2.50	2.26 U	na	13.4	9.15	na
-08	-08-A	9-Sep-11	0.0 - 0.50	**17.1**	1.02 U	48.1	488.	1.02 U
	-08-B	9-Sep-11	0.50 - 1.00	**7.55**	1.19 U	49.5	408.	1.19 U
-09	-09-A	9-Sep-11	0.0 - 0.50	**19.5**	1.12 U	57.3	428.	1.12 U
	-09-B	9-Sep-11	0.50 - 1.00	**7.56**	1.25 U	65.3	124.	1.25 U
	-09-BD	9-Sep-11	0.50 - 1.00	5.77	1.25 U	56.5	181.	1.25 U
	-09-C	9-Sep-11	1.0 - 1.50	5.75	1.25 U	61.2	92.6	1.25 U
	-09-D	30-Sep-11	1.5 - 2.00	2.67 U	na	36.1	13.5	na
	-09-E	30-Sep-11	2.0 - 2.50	2.44 U	na	41.	24.6	na
	-09-F	30-Sep-11	2.5 - 3.00	2.41 U	na	55.6	12.8	na
-10	-10-A	9-Sep-11	0.0 - 0.50	**8.96**	1.33 U	55.6	104.	1.33 U

TABLE RA-4 – Detected Metals Concentrations in Soil and Sediment - Cripple Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
			Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
			Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
	-10-B	9-Sep-11	0.50 - 1.00	4.77	1.22 U	52.4	50.3	1.22 U
	-10-C	9-Sep-11	1.0 - 1.50	2.53	1.26 U	55.1	15.7	1.26 U
-11	-11-A	9-Sep-11	0.0 - 0.50	2.67 U	1.34 U	35.7	26.9	1.34 U
	-11-B	9-Sep-11	0.50 - 1.00	2.27 U	1.13 U	55.	20.7	1.13 U
	-11-C	9-Sep-11	1.0 - 1.50	2.47 U	1.24 U	61.7	8.49	1.24 U
-12	-12-A	12-Sep-11	0.0 - 0.50	5.42	1.1 U	21.6	422.	1.1 U
	-12-B	12-Sep-11	0.50 - 1.00	2.8	1.14 U	18.	110.	1.14 U
	-12BD	12-Sep-11	0.50 - 1.00	2.4 U	1.2 U	12.6	112.	1.2 U
	-12-C	12-Sep-11	1.0 - 1.50	2.4 U	1.2 U	15.9	58.	1.2 U
	-12-D	29-Sep-11	1.5 - 2.00	2.38 U	na	13.2	6.86	na
	-12-E	29-Sep-11	2.0 - 2.50	2.51 U	na	16.8	6.99	na
-13	-13-A	12-Sep-11	0.0 - 0.50	**9.91**	1.18 U	32.4	225.	1.18 U
	-13AD	12-Sep-11	0.0 - 0.50	**8.65**	1.25 U	29.4	275.	1.25 U
	-13-B	12-Sep-11	0.50 - 1.00	2.39 U	1.2 U	20.	107.	1.2 U
	-13-C	12-Sep-11	1.0 - 1.50	2.26 U	1.13 U	18.1	41.3	1.13 U
	-13-D	29-Sep-11	1.5 - 2.00	2.38 U	na	13.	18.3	na
	-13-E	29-Sep-11	2.0 - 2.50	2.32 U	na	13.7	6.05	na
-14	-14-A	8-Sep-11	0.0 - 0.50	2.84 U	1.42 U	45.5	19.	1.42 U
	-14-B	8-Sep-11	0.50 - 1.00	2.57 U	1.29 U	51.3	8.76	1.29 U
	-14BD	8-Sep-11	0.50 - 1.00	2.64 U	1.32 U	48.	8.03	1.32 U
	-14-C	8-Sep-11	1.0 - 1.50	2.62 U	1.31 U	45.	7.77	1.31 U
-15	-15-A	8-Sep-11	0.0 - 0.50	2.44 U	1.22 U	58.8	20.5	1.22 U
	-15-B	8-Sep-11	0.50 - 1.00	2.53 U	1.26 U	58.9	31.	1.26 U
	-15-C	8-Sep-11	1.0 - 1.50	2.43 U	1.21 U	60.2	17.	1.21 U
-16	-16-A	8-Sep-11	0.0 - 0.50	2.73 U	1.37 U	67.1	10.8	1.37 U
	-16-B	8-Sep-11	0.50 - 1.00	2.44 U	1.22 U	67.2	9.71	1.22 U
	-16-C	8-Sep-11	1.0 - 1.50	2.49 U	1.24 U	64.1	6.88	1.24 U
-17	-17-A	9-Sep-11	0.0 - 0.50	2.58 U	1.29 U	53.8	13.9	1.29 U
	-17-B	9-Sep-11	0.50 - 1.00	2.47 U	1.23 U	60.9	7.69	1.23 U
	-17-BD	9-Sep-11	0.50 - 1.00	2.56 U	1.28 U	58.4	10.6	1.28 U
	-17-C	9-Sep-11	1.0 - 1.50	2.59 U	1.3 U	59.6	6.62	1.3 U
-18	-18-A	9-Sep-11	0.0 - 0.50	2.7 U	1.35 U	49.6	12.1	1.35 U
	-18-B	9-Sep-11	0.50 - 1.00	2.52 U	1.26 U	56.7	6.75	1.26 U
	-18-C	9-Sep-11	1.0 - 1.50	2.53 U	1.26 U	60.1	6.37	1.26 U
-19	-19-A	9-Sep-11	0.0 - 0.50	2.4 U	1.2 U	26.1	28.2	1.2 U
	-19-B	9-Sep-11	0.50 - 1.00	2.35 U	1.17 U	39.5	5.82	1.17 U
	-19-C	9-Sep-11	1.0 - 1.50	2.19 U	1.1 U	40.1	17.1	1.1 U
-20	-20-A	8-Sep-11	0.0 - 0.50	2.36 U	1.18 U	19.4	26.3	1.18 U
	-20-B	8-Sep-11	0.50 - 1.00	2.38 U	1.19 U	10.3	13.3	1.19 U
	-20-C	8-Sep-11	1.0 - 1.50	2.19 U	1.09 U	17.3	17.3	1.09 U
-21	-21-A	8-Sep-11	0.0 - 0.50	2.63 U	1.32 U	35.4	14.7	1.32 U
	-21-B	8-Sep-11	0.50 - 1.00	2.95 U	1.47 U	36.3	8.09	1.47 U

TABLE RA-4 – Detected Metals Concentrations in Soil and Sediment - Cripple Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
			Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
			Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
	-21-C	8-Sep-11	1.0 - 1.50	2.53 U	1.27 U	39.9	9.4	1.27 U
-22	-22-A	8-Sep-11	0.0 - 0.50	2.75 U	1.37 U	59.6	58.5	1.37 U
	-22-B	8-Sep-11	0.50 - 1.00	2.75 U	1.37 U	58.6	22.9	1.37 U
	-22-C	8-Sep-11	1.0 - 1.50	2.56 U	1.28 U	49.4	8.68	1.28 U
-23	-23-A	8-Sep-11	0.0 - 0.50	2.66 U	1.33 U	61.9	8.68	1.33 U
	-23-B	8-Sep-11	0.50 - 1.00	2.53 U	1.27 U	55.	6.35	1.27 U
	-23-C	8-Sep-11	1.0 - 1.50	2.66 U	1.33 U	67.9	7.5	1.33 U
-24	-24-A	12-Sep-11	0.0 - 0.50	2.48 U	1.24 U	55.4	15.6	1.24 U
	-24-B	12-Sep-11	0.50 - 1.00	2.54 U	1.27 U	50.6	10.2	1.27 U
	-24-C	12-Sep-11	1.0 - 1.50	2.61 U	1.3 U	47.7	8.73	1.3 U
-25	-25-A	12-Sep-11	0.0 - 0.50	2.27 U	1.13 U	18.5	38.8	1.13 U
	-25-B	12-Sep-11	0.50 - 1.00	2.19 U	1.09 U	18.7	11.8	1.09 U
	-25-C	12-Sep-11	1.0 - 1.50	2.34 U	1.17 U	14.8	4.77	1.17 U
-26	-26-A	12-Sep-11	0.0 - 0.50	2.41 U	1.21 U	18.8	8.96	1.21 U
	-26-B	12-Sep-11	0.50 - 1.00	2.39 U	1.19 U	18.5	4.72	1.19 U
	-26-C	12-Sep-11	1.0 - 1.50	2.36 U	1.18 U	20.3	4.46	1.18 U
-27	-27-A	8-Sep-11	0.0 - 0.50	2.64 U	1.32 U	33.3	13.6	1.32 U
	-27-B	8-Sep-11	0.50 - 1.00	2.6 U	1.3 U	43.3	21.3	1.3 U
	-27-C	8-Sep-11	1.0 - 1.50	2.51 U	1.26 U	31.1	13.7	1.26 U
-28	-28-A	8-Sep-11	0.0 - 0.50	2.55 U	1.28 U	48.3	14.4	1.28 U
	-28-B	8-Sep-11	0.50 - 1.00	2.41 U	1.21 U	34.1	5.98	1.21 U
	-28-C	8-Sep-11	1.0 - 1.50	2.75 U	1.38 U	42.8	11.2	1.38 U
-29	-29-A	8-Sep-11	0.0 - 0.50	**7.57**	1.14 U	64.7	72.9	1.14 U
	-29-B	8-Sep-11	0.50 - 1.00	2.36 U	1.18 U	55.	11.9	1.18 U
	-29-C	8-Sep-11	1.0 - 1.50	2.64 U	1.32 U	55.6	8.23	1.32 U
-30	-30-A	8-Sep-11	0.0 - 0.50	**19.3**	1.09 U	48.3	405.	1.09 U
	-30-B	8-Sep-11	0.50 - 1.00	**8.56**	1.18 U	47.8	312.	1.18 U
	-30BD	8-Sep-11	0.50 - 1.00	**8.67**	1.18 U	49.9	447.	1.18 U
	-30-C	8-Sep-11	1.0 - 1.50	6.74	1.33 U	46.1	214.	1.33 U
	-30-D	29-Sep-11	1.5 - 2.00	2.64	na	30.4	101.	na
	-30-E	29-Sep-11	2.0 - 2.50	2.28 U	na	35.7	49.	na
	-30-F	29-Sep-11	2.5 - 3.00	2.51 U	na	46.6	17.9	na
-31	-31-A	8-Sep-11	0.0 - 0.50	**23.3**	1. U	54.5	571.	1. U
	-31-B	8-Sep-11	0.50 - 1.00	2.42 U	1.21 U	17.3	19.5	1.21 U
	-31-BD	8-Sep-11	0.50 - 1.00	2.37 U	1.19 U	19.4	15.9	1.19 U
	-31-C	8-Sep-11	1.0 - 1.50	2.45	1.13 U	21.7	21.4	1.13 U
	-31-D	28-Sep-11	1.5 - 2.00	2.34 U	na	20.4	6.66	na
	-31-E	28-Sep-11	2.0 - 2.50	2.46 U	na	21.2	36.9	na
-32	-32-A	9-Sep-11	0.0 - 0.50	**16.9**	1.09 U	43.6	183.	1.09 U
	-32-B	9-Sep-11	0.50 - 1.00	2.48 U	1.24 U	24.9	233.	1.24 U
	-32-C	9-Sep-11	1.0 - 1.50	3.21	1.13 U	29.4	91.1	1.13 U
	-32-D	30-Sep-11	1.5 - 2.00	2.38 U	na	19.7	28.3	na

TABLE RA-4 – Detected Metals Concentrations in Soil and Sediment - Cripple Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
			Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
			Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
	-32-E	30-Sep-11	2.0 - 2.50	2.29 U	na	19.9	41.8	na
	-32-F	30-Sep-11	2.5 - 3.00	2.19 U	na	20.5	17.	na
	-32-FD	30-Sep-11	2.5 - 3.00	2.28 U	na	26.4	19.4	na
-33	-33-A	9-Sep-11	0.0 - 0.50	**14.3**	1.11 U	67.5	230.	1.11 U
	-33-B	9-Sep-11	0.50 - 1.00	**10.**	1.17 U	66.	110.	1.17 U
	-33-C	9-Sep-11	1.0 - 1.50	2.36 U	1.18 U	60.3	89.6	1.18 U
	-33-D	30-Sep-11	1.5 - 2.00	2.61 U	na	30.8	48.5	na
	-33-E	30-Sep-11	2.0 - 2.50	2.49 U	na	34.6	19.5	na
	-33-ED	30-Sep-11	2.0 - 2.50	2.63 U	na	32.7	14.6	na
-34	-34-A	9-Sep-11	0.0 - 0.50	2.44 U	1.22 U	27.8	29.8	1.22 U
	-34-AD	9-Sep-11	0.0 - 0.50	2.57 U	1.28 U	64.6	70.6	1.28 U
	-34-B	9-Sep-11	0.50 - 1.00	2.59 U	1.29 U	67.6	12.5	1.29 U
	-34-C	9-Sep-11	1.0 - 1.50	2.57 U	1.29 U	64.5	15.2	1.29 U
-35	-35-A	8-Sep-11	0.0 - 0.50	2.55 U	1.28 U	54.4	13.9	1.28 U
	-35-B	8-Sep-11	0.50 - 1.00	2.4 U	1.2 U	38.	6.27	1.2 U
	-35-C	8-Sep-11	1.0 - 1.50	2.44 U	1.22 U	41.5	5.76	1.22 U
-36	-36-A	8-Sep-11	0.0 - 0.50	2.54 U	1.27 U	30.7	48.9	1.27 U
	-36-B	8-Sep-11	0.50 - 1.00	2.21 U	1.1 U	28.2	31.2	1.1 U
	-36-C	8-Sep-11	1.0 - 1.50	2.32 U	1.16 U	34.5	26.7	1.16 U
	-36-D	29-Sep-11	1.5 - 2.00	2.46 U	na	35.4	5.75	na
-37	-37-A	8-Sep-11	0.0 - 0.50	2.67 U	1.34 U	14.9	50.	1.34 U
	-37-B	8-Sep-11	0.50 - 1.00	2.33 U	1.16 U	10.9	7.68	1.16 U
	-37-C	8-Sep-11	1.0 - 1.50	2.25 U	1.12 U	21.	15.7	1.12 U
-38	-38-A	7-Sep-11	0.0 - 0.50	2.3 U	1.15 U	16.9	48.9	1.15 U
	-38-B	7-Sep-11	0.50 - 1.00	2.3 U	1.15 U	42.	16.4	1.15 U
	-38-C	7-Sep-11	1.0 - 1.50	2.36 U	1.18 U	33.2	7.52	1.18 U
-39	-39-A	7-Sep-11	0.0 - 0.50	2.36 U	1.18 U	41.	10.9	1.18 U
	-39-B	7-Sep-11	0.50 - 1.00	2.53 U	1.27 U	54.6	8.89	1.27 U
	-39-C	7-Sep-11	1.0 - 1.50	2.65 U	1.32 U	50.1	6.76	1.32 U
-40	-40-A	8-Sep-11	0.0 - 0.50	2.5 U	1.25 U	49.6	12.1	1.25 U
	-40-AD	8-Sep-11	0.0 - 0.50	2.63 U	1.32 U	53.7	14.9	1.32 U
	-40-B	8-Sep-11	0.50 - 1.00	2.61 U	1.31 U	54.4	7.6	1.31 U
	-40-C	8-Sep-11	1.0 - 1.50	2.67 U	1.33 U	56.6	7.03	1.33 U
-41	-41-A	8-Sep-11	0.0 - 0.50	2.55 U	1.27 U	60.3	9.45	1.27 U
	-41-B	8-Sep-11	0.50 - 1.00	2.4 U	1.2 U	55.4	6.13	1.2 U
	-41-C	8-Sep-11	1.0 - 1.50	2.36 U	1.18 U	58.1	6.76	1.18 U
-42	-42-A	8-Sep-11	0.0 - 0.50	2.22 U	1.11 U	14.4	42.1	1.11 U
-43	-43-A	7-Sep-11	0.0 - 0.50	2.5 U	1.25 U	19.8	6.9	1.25 U
	-43-AD	7-Sep-11	0.0 - 0.50	2.63 U	1.26 U	44.1	6.81	1.26 U
	-43-B	7-Sep-11	0.50 - 1.00	2.63 U	1.32 U	28.5	6.82	1.32 U
	-43-C	7-Sep-11	1.00 - 1.50	2.56 U	1.28 U	30.9	6.49	1.28 U
-44	-44-A	7-Sep-11	0.0 - 0.50	2.35 U	1.17 U	38.9	6.55	1.17 U

TABLE RA-4 – Detected Metals Concentrations in Soil and Sediment - Cripple Creek Trestle

Screening Levels in mg/kg (ppm)				Arsenic	Cadmium	Chromium[b]	Lead	Silver
			Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
			Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]
	-44-B	7-Sep-11	0.50 - 1.00	2.44 U	1.22 U	54.7	6.81	1.22 U
	-44-C	7-Sep-11	1.0 - 1.50	2.49 U	1.25 U	54.5	6.79	1.25 U
-45S	-45S	12-Sep-11	0.0 - 0.50	2.31 U	1.16 U	5.41	2.24	1.16 U
-46S	-46S	12-Sep-11	0.0 - 0.50	2.11 U	1.05 U	7.65	2.47	1.05 U
-47S	-47S	12-Sep-11	0.0 - 0.50	2.83 U	1.41 U	8.46	3.31	1.41 U
	-47SD	12-Sep-11	0.0 - 0.50	2.34 U	1.17 U	7.99	2.49	1.17 U
-48S	-48S	12-Sep-11	0.0 - 0.50	2.87 U	1.44 U	10.7	2.63	1.44 U
-49S	-49S	12-Sep-11	0.0 - 0.50	2.62 U	1.31 U	11.6	4.24	1.31 U
-50	-50-A	29-Sep-11	0.0 - 0.50	2.37 U	na	10.6	41.2	na
	-50-B	29-Sep-11	0.5 - 1.00	2.41 U	na	11.2	28.2	na
	-50C	29-Sep-11	1.0 - 1.50	2.27 U	na	12.4	6.81	na
-51	-51-A	29-Sep-11	0.0 - 0.50	2.25 U	na	9.78	27.2	na
	-51-B	29-Sep-11	0.5 - 1.00	2.32 U	na	19.7	7.46	na
-52	-52-A	29-Sep-11	0.0 - 0.50	2.67 U	na	33.8	18.6	na
	-52-B	29-Sep-11	0.5 - 1.00	2.72 U	na	39.7	13.7	na
-53	-53-A	29-Sep-11	0.0 - 0.50	2.62 U	na	19.2	21.3	na
	-53-B	29-Sep-11	0.5 - 1.00	2.47 U	na	49.9	16.8	na
-54	-54-A	30-Sep-11	0.0 - 0.50	2.54 U	na	37.8	14.1	na
-55	-55-A	30-Sep-11	0.0 - 0.50	2.46 U	na	39.4	26.9	na
	-55AD	30-Sep-11	0.0 - 0.50	2.64 U	na	41.	21.6	na
	-55-B	30-Sep-11	0.5 - 1.00	2.38 U	na	36.1	8.15	na
	-55C	30-Sep-11	1.0 - 1.50	2.7 U	na	56.1	7.88	na
-56	-56-A	29-Sep-11	0.0 - 0.50	2.38 U	na	16.9	9.77	na
RW-1	-RW-01-A	9-Sep-11	0.0 - 0.50	2.3 U	1.15 U	35.3	10.9	1.15 U
	-RW01-B	9-Sep-11	0.50 - 1.00	2.1 U	1.05 U	26.6	6.1	1.05 U
	-RW01-C	9-Sep-11	1.0 - 1.50	2.4 U	1.2 U	26.	6.21	1.2 U
RW-2	-RW-02-A	9-Sep-11	0.0 - 0.50	2.21 U	1.1 U	37.1	28.3	1.1 U
	-RW02-B	9-Sep-11	0.50 - 1.00	2.23 U	1.12 U	34.5	7.19	1.12 U
	-RW02-C	9-Sep-11	1.0 - 1.50	2.2 U	1.1 U	33.5	6.41	1.1 U
RW-3	-RW-03-A	9-Sep-11	0.0 - 0.50	**24.6**	1.24 U	41.7	60.2	1.24 U
	-RW03-B	9-Sep-11	0.50 - 1.00	2.51 U	1.26 U	25.7	36.4	1.26 U
	-RW03-BD	9-Sep-11	0.50 - 1.00	2.27 U	1.14 U	25.1	33.5	1.14 U
	-RW03-C	9-Sep-11	1.0 - 1.50	2.6 U	1.3 U	16.3	11.5	1.3 U
RW-4	-RW-04-A	9-Sep-11	0.0 - 0.50	2.31 U	1.15 U	50.9	28.8	1.15 U
	-RW04-B	9-Sep-11	0.50 - 1.00	2.4 U	1.2 U	23.8	10.4	1.2 U
	-RW04-C	9-Sep-11	1.0 - 1.50	2.24 U	1.12 U	20.7	8.26	1.12 U

a = DEQ Risk-Based Concentrations (RBCs) for Occupational Worker (Revised November 15, 2011).
b = The lowest of the chrome screening values between Chrome III and VI. Assumes 100 percent Chrome VI. Chromium speciation not performed at this
c = Table 1, Human Health Risk Assessment Guidance, DEQ (2010)
d = GeoEngineers, Background Metals Report, Oregon Background Metals Evaluation, For DEQ, June 30, 2010. Table 8, 90% UCL
Orange Highlighted = Relevant Screening Value
Bold and Highlighted = Concentration exceeds both lowest Screening Level and the Default Background Concentration

bgs = below ground surface mg/kg = milligrams/kilogram ppm = parts per million

TABLE RA-4 – Detected Metals Concentrations in Soil and Sediment - Cripple Creek Trestle

Screening Levels in mg/kg (ppm)	Arsenic	Cadmium	Chromium[b]	Lead	Silver
Human Health: Construction Worker ==>	13 [a]	150 [a]	43 [a]	800 [a]	1,500 [a]
Default Naturally-Occurring Background Level ==>	7 [c]	1 [c]	86 [d]	17 [c]	1 [c]

DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency
na = no analysis
nc = no criteria
U = not detected above concentration indicated
>Max = The RBC is greater than 100,000 mg/kg

TABLE RA-5 – Summary of Soil Testing Results: Leachable (TCLP) Metals

Screening Levels in mg/L (ppm)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
RCRA Hazardous Waste Levels [1] ==>	5.	100.	1.	5.	5.	0.2	1.	5.

Laboratory Analytical Testing Results in mg/L (ppm)

Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
007	15-Jul-04	0.0 - 0.25	0.05 U	0.892	0.01 U	0.01 U	0.195	0.0002 U	0.05 U	0.02 U
029	15-Jul-04	0.0 - 0.25	0.05 U	0.445	0.01 U	0.026	0.05 U	0.0002 U	0.05 U	0.02 U

1 = EPA RCRA Characteristic Hazardous Waste (TCLP) Level

bgs = below ground surface
EPA = U.S. Environmental Protection Agency
mg/L = milligrams/liter
ppm = parts per million
TCLP = Toxicity Characteristic Leaching Procedure
U = not detected above concentration indicated

TABLE RA-6 – Detected Metals Concentrations in Surface Water - Pint Creek Trestle

Screening Levels in ug/L (ppm)	Arsenic	Chromium	Lead
DEQ 2004 AWQC (Chronic) ==>	0.14	11	1

Laboratory Analytical Testing Results in ug/L (ppm)

Sampling Station	Sample Number	Sample Date	Sample Depth (feet bgs)	Arsenic	Chromium	Lead
60W	-60W	16-May-12	n/a	2 U	1 J	1 U

Bold and Highlighted = Concentration exceeds Screening Level

bgs = below ground surface

DEQ = Oregon Department of Environmental Quality

AWQC = Ambient Water Quality Criteria

W = Surface Water

ppm = part per million

U = not detected above concentration indicated

TABLE RA-7 – Detected Metals Concentrations in Surface Water - Cripple Creek Trestle

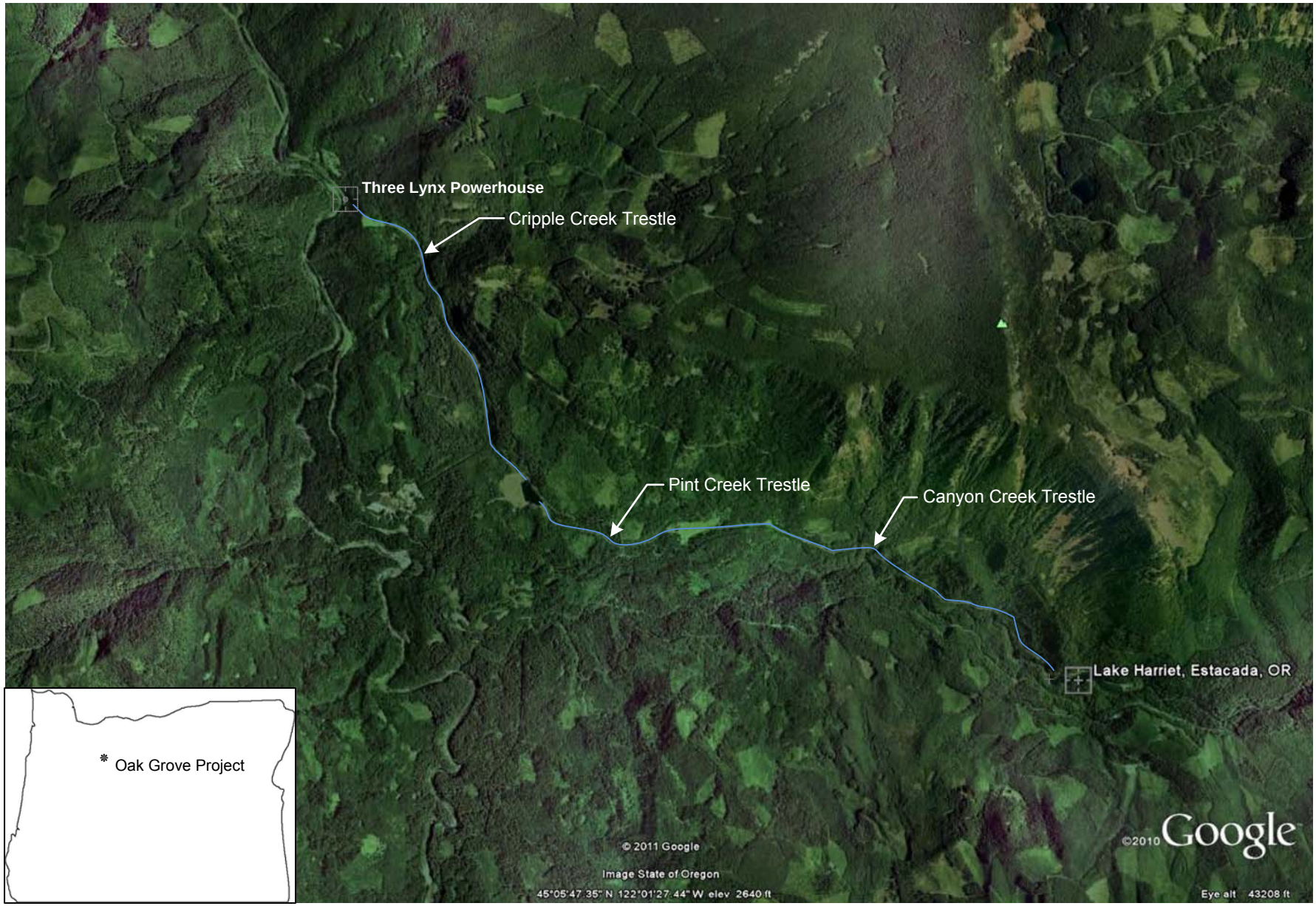
Reference Levels in ug/L (ppb)	Chromium	Lead	TSS
DEQ 2004 AWQC (Chronic) ==>	11.	0.54	NV

Laboratory Analytical Testing Results in mg/kg (ppm)

Sampling Station	Sample Date	Sample Depth (feet bgs)	Chromium	Lead	TSS
SW-1	27-Sep-11	n/a	2.00 U	1.00 U	5 U
SW-2	27-Sep-11	n/a	2.00 U	1.00 U	5 U

bgs = below ground surface
DEQ = Oregon Department of Environmental Quality
AWQC = Ambient Water Quality Criteria
SW - Surface Water
ppb = parts per billion
U = not detected above concentration indicated
NV = No screen value

Figures



N

1 mile
Approx. Scale

Figure 1
Trestles Site Vicinity
Oak Grove Hydroelectric Project

BRIDGEWATER GROUP, INC.

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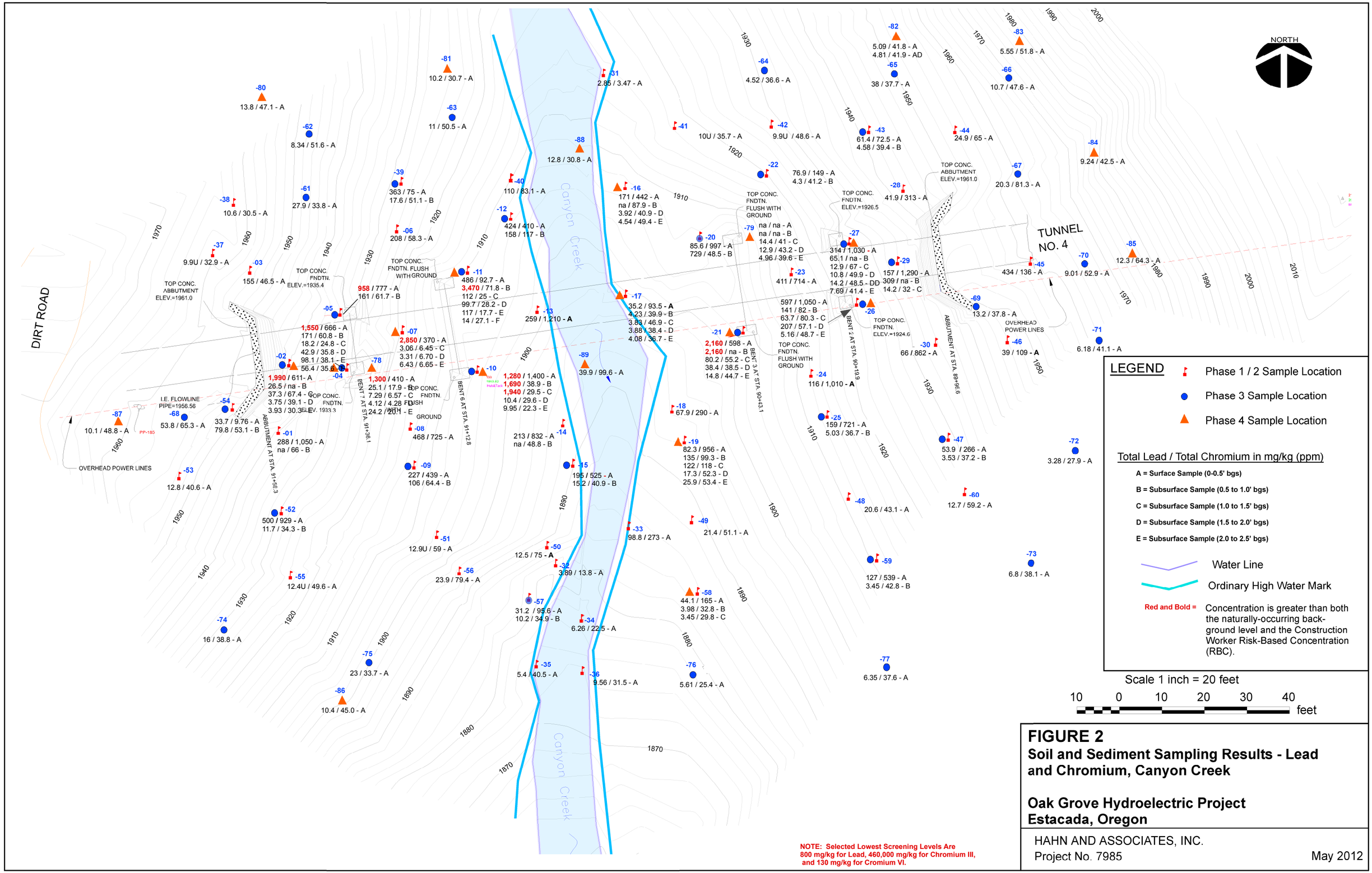
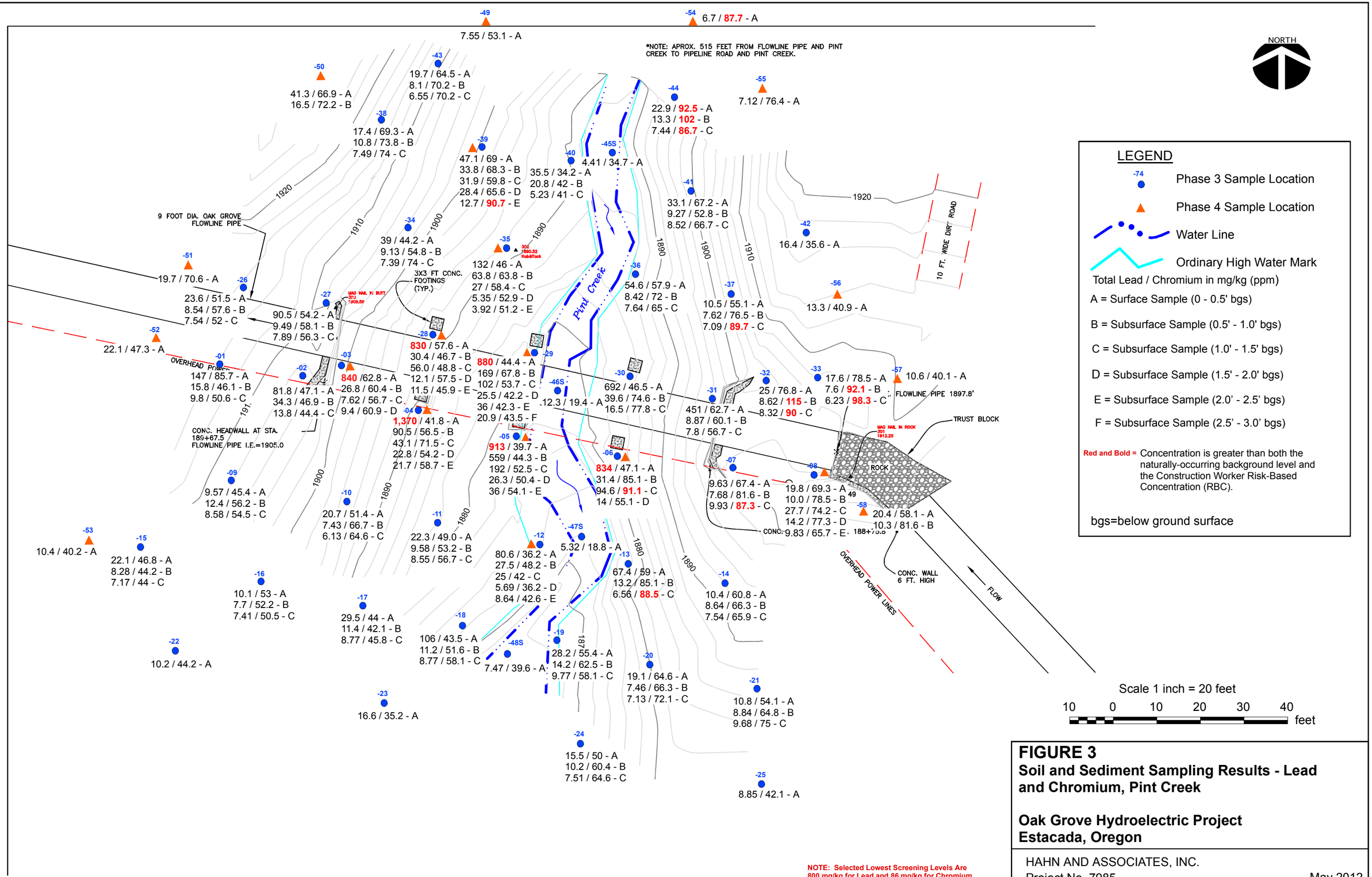


FIGURE 2
Soil and Sediment Sampling Results - Lead and Chromium, Canyon Creek

Oak Grove Hydroelectric Project
Estacada, Oregon

HAHN AND ASSOCIATES, INC.
Project No. 7985 May 2012



LEGEND

-74 Phase 3 Sample Location

Phase 4 Sample Location

Water Line

Ordinary High Water Mark

Total Lead / Chromium in mg/kg (ppm)

A = Surface Sample (0 - 0.5' bgs)

B = Subsurface Sample (0.5' - 1.0' bgs)

C = Subsurface Sample (1.0' - 1.5' bgs)

D = Subsurface Sample (1.5' - 2.0' bgs)

E = Subsurface Sample (2.0' - 2.5' bgs)

F = Subsurface Sample (2.5' - 3.0' bgs)

Red and Bold = Concentration is greater than both the naturally-occurring background level and the Construction Worker Risk-Based Concentration (RBC).

bgs=below ground surface

FIGURE 3
Soil and Sediment Sampling Results - Lead and Chromium, Pint Creek

Oak Grove Hydroelectric Project
Estacada, Oregon

HAHN AND ASSOCIATES, INC.
Project No. 7985 May 2012

Approximate Scale

100 ft.

Approximate Location Of Pint Creek

N

Figure 4
Downstream Sediment and Water
Sample Location - Print Creek
Oak Grove Hydroelectric Project

BRIDGEWATER GROUP, INC.

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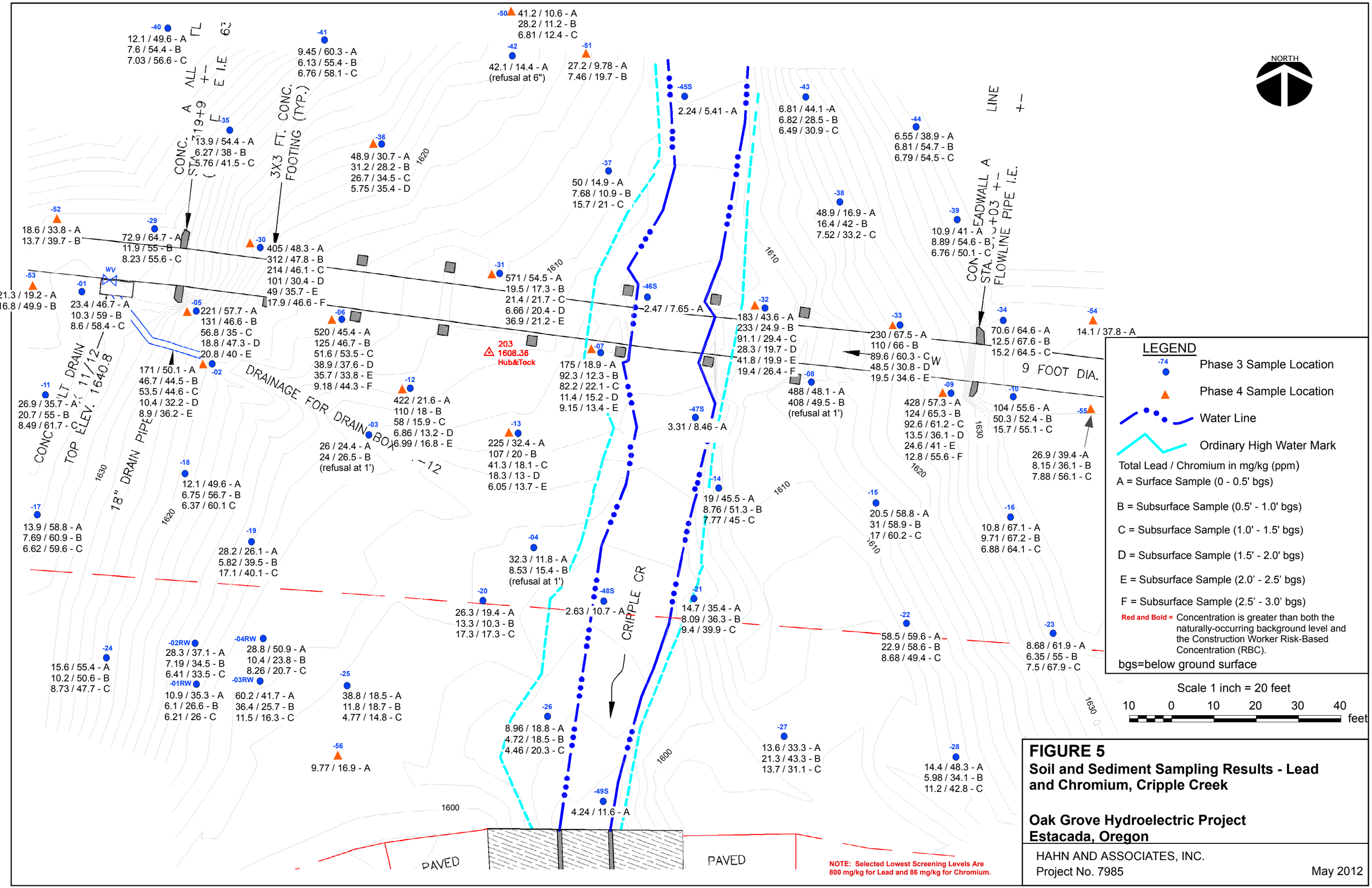

FIGURE 5
Soil and Sediment Sampling Results - Lead and Chromium, Cripple Creek

Oak Grove Hydroelectric Project
Estacada, Oregon

HAHN AND ASSOCIATES, INC.
Project No. 7985 May 2012

Appendix B – Oak Grove Flowline Trestles Project Ecological Risk Screening, March 15, 2013

Portland General Electric Company
121 SW Salmon Street • Portland, Oregon 97204

March 15, 2013
ES-112-2013
GOV REL 67-1
Oak Grove Trestles

Joseph Gibbens
USDA Forest Service
F6 OSC
1835 Black Lake Blvd SW
Olympia, WA 98512

Subject: Oak Grove Flowline Trestles Project Ecological Risk Screening Summary

Dear Mr. Gibbens:

This letter presents supplemental risk information from Portland General Electric Company (PGE) for the Oak Grove Flowline Trestles Project. Previously, PGE had submitted a *Final Site Investigation Report for the Oak Grove Hydroelectric Project Water Conveyance Trestles* (Bridgewater 2012), hereafter referred to as the Site Investigation (SI), on May 31, 2012. This supplemental information assessment addresses comments regarding the SI in the January 30, 2013 letter from the US Department of Agriculture Forest Service (USDA-FS) and Oregon Department of Environmental Quality (DEQ). PGE was requested specifically to address USDA-FS comments regarding ecological risk, 90% upper confidence limits on the mean (UCLs) calculated for three metals (i.e., arsenic, chromium, and lead) with data from the Canyon Creek, Cripple Creek, and Pint Creek locations at the Oak Grove Trestles site. These UCLs were compared with screening levels for various ecological guilds. In addition, risks were assessed semi-quantitatively for two sensitive species that potentially occur at the trestle sites.

A summary of PGE's responses to comments was presented to the USDA-FS and DEQ in slide presentations and discussion on February 28, 2013. The slide presentations are attached to this letter. The following information further discusses the SI data and calculation/assessment of risk for potential ecological receptors and should be considered, along with the slide presentations, as PGE's response to USDA-FS and DEQ comments on the SI.

CALCULATION OF UCLS

UCLs were calculated for arsenic, chromium, and lead at each trestle study area using Environmental Protection Agency (EPA's) ProUCL Version 4.1.00 software. Ninety percent (90%) UCLs were calculated for each metal using soil data presented in the SI (which represented surface and shallow soil in the vicinities of the trestles) to assess exposure across the trestle study areas. Statistical results were reviewed for relevance and the nature of the dataset; the selected UCLs were calculated using Student's t distribution cutoff values. When datasets included significant numbers of non-detect values, the Kaplan-Meier analysis was the preferred method for calculating UCLs.

COMPARISON OF UCLS WITH RELEVANT SCREENING VALUES

Soil and sediment screening values for both terrestrial and aquatic environments were compiled from available values established by both EPA (2010) and DEQ (2001). The screening values included soil screening levels (SSLs) established by the EPA and screening level values (SLVs) established by the DEQ. These screening values are highly conservative and intended only for preliminary screening use. Exposure concentrations less than the screening values indicate very low risk. Exposure concentrations greater than the screening values do not necessarily indicate risk, only that additional analyses may be desirable. When screening values for sediment in an aquatic environment were not available, background concentrations established by DEQ (2002, 2007) were used.

UCLs were generally greater than the screening values for aquatic wildlife (i.e., birds and mammals); however, risks are considered low for these receptors based on the limited amount of aquatic habitat in the vicinity of the trestles. Only a very small amount of aquatic habitat exists within the forested trestle areas (i.e., short segments of streams) relative to the home ranges of aquatic wildlife. Furthermore, Canyon Creek is not a surface stream (i.e., does not provide aquatic habitat) during summer months. Thus, the actual exposure concentrations for these species would be much lower than the 90% UCL for the Canyon Creek study area. In addition, metals concentrations in sediment and water in the trestle areas were less than or similar to local background metals concentrations.[1] Therefore, any potential benefit to aquatic invertebrates or other ecological aquatic receptors with smaller home ranges from remedial action would be short lived because the habitat would quickly transition back to conditions similar to those currently present via soil erosion and re-deposition of metals occurring naturally at similar concentrations.

For terrestrial mammals, UCLs were either less than or within the range of the screening values, indicating low risk. Moreover, actual exposure concentrations for terrestrial wildlife would be lower than the 90% UCLs calculated for the trestle study areas, assuming most (or all) wildlife species of interest have home ranges that are larger than the trestle study areas.

For terrestrial birds, although arsenic 90% UCLs were within the range of the screening values, both the chromium and lead 90% UCLs for soil were greater than the range of screening values, which default to DEQ background concentrations. However, because the areas of identified contamination are small relative to the home ranges of most birds in the area and the foraging habitat in the trestles area is generally poor and inferior to the surrounding habitat, the potential risk for this guild is considered to be low. As an example, an American robin has a small home range of approximately 0.6 ac (Washington Administrative Code 2007). Therefore, the areas of contamination are less than half of a home range, significantly decreasing exposure to any resident robins.

For terrestrial invertebrates (e.g., worms), surface soil 90% UCLs were less than or within the range of screening values and background, except for chromium, which was greater than 2 times the DEQ background concentration in a subset of the study area at Canyon Creek. Elevated background chromium concentrations in the range of 60 to 90 mg/kg were observed at Cripple Creek and 60 to 80 mg/kg at Pint Creek. By default, this would raise the screening value, which can be based on background. In addition, because worms integrate their exposure to soil over the top few feet (Lee 1985), the actual exposure of worms to chromium in the study areas is likely lower than the screening value (i.e, local background concentration).

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[1] Bridgewater Group, Inc., SI report (2012), Tables 1, 5, and 7.

SENSITIVE SPECIES

Two sensitive species were identified by PGE during the streamlined risk assessment—the northern spotted owl and the Cascade torrent salamander—each of which are assessed in the subsections that follow.

Northern Spotted Owl (*Strix occidentalis caurina*)

An exposure assessment was conducted for the northern spotted owl, a species listed as threatened under the Endangered Species Act. The home range of the northern spotted owl was compared with the size of the trestle study areas to determine the actual exposure of owls to trestle-related contamination.

The three trestle study areas are located within the home ranges (1.2-mi radius) of five known northern spotted owl nest sites (known to be occupied in the past; current status unknown), and the Cripple Creek study area is within the home range of three of these five nest sites. Within these home ranges, the northern spotted owl has a preferred core area for movement and feeding that is within a 0.5-mi radius of its nest. Only a single core area intersects with a trestle study area, specifically the Cripple Creek study area, which is the location with the lowest observed 90% UCLs and the smallest area of potential impact. The trestle study areas represent a small fraction of the northern spotted owl's home range. The trestle study areas were approximately 0.9 ac at Canyon Creek, 1.1 ac at Cripple Creek, and 0.7 ac at Pint Creek. Home ranges were approximately 2,700 to 4,300 times the size of the study areas; the core area is approximately 500 times the study area at Cripple Creek. In addition, the altered conditions (i.e., from prior ground clearing) in the vicinity of the trestles provide inferior habitat for the northern spotted owl relative to the rest of the core areas or home ranges.

Taken in conjunction with the 90% UCLs for the trestle study areas, which were at most a factor of 13 times higher than conservative generic SLVs, the risk of trestles-related impacts to the northern spotted owl is low.

Cascade Torrent Salamander (*Rhyacotriton cascadae*)

The Cascade torrent salamander is classified as a vulnerable sensitive species by the Oregon Department of Fish & Wildlife (ODFW). Limited data are available to assess the sensitivity of amphibians to metals. One study was identified in which sediment-based no-observed-adverse-effect levels (NOAELs) were developed for lead, cadmium, copper, and zinc as part of the Navy's *Development of a Standardized Approach for Assessing Potential Risks to Amphibians Exposed to Sediment and Hydric Soils* (ENSR 2004). Soil concentrations at the trestles study areas were less than the NOAELs for lead.

No amphibian NOAELs were available for arsenic and chromium. However, based on the data for lead and two of the other metals in the study,[2] amphibians were several times less sensitive to metals than were invertebrates, indicating that risks from arsenic and chromium are also likely to be low.

In addition, the average daily range of the Cascade torrent Salamander is approximately 2.4 m within a streambed environment (Howell and Maggiulli 2011). Although observed movement of the salamander was predominantly lateral within streambeds, a 2.4 m buffer was plotted perpendicular to the surveyed water lines at the trestle study areas as a conservative estimate of a zone of potential exposure. Lead concentrations were greater than the NOAEL only at three sampling locations within the Canyon Creek

[2] Note that amphibians and invertebrates appear to have a similar sensitivity to copper.

study area, none of which are within the salamander movement range or zone of potential exposure. The salamander movement range intersected with only small portions of all three trestle study areas, with few elevated concentrations of arsenic and chromium identified within these ranges.

Thus, based on the available exposure and effects data for amphibians, risks to the Cascade torrent salamander were determined to be low.

HABITAT PRESERVATION CONSIDERATIONS

As noted during the presentation to the USDA-FS and DEQ on February 28, 2013, several other factors related to habitat preservation must be considered when evaluating risks to ecological receptors. These are as follows:

- **Road Construction for Site Access.** The trestles are in a remote area of the Mt. Hood National Forest. Mobilizing heavy equipment to the trestle study areas would require the construction of roads, which would require the removal of brush and trees. Although stormwater control would be implemented, soil erosion would likely occur with some level of impact to surface ecological receptors in soil, as well as some loss of habitat for birds and mammals.
- **Land Clearing Required for Soil Removal.** The size of the soil removal area would be driven by the selection of the screening value or "cleanup value." The lower the cleanup value, the larger the soil removal area. The size of the soil removal area would dictate the degree of grubbing and tree removal, as well as the construction of stormwater management features, potentially outside the area of impact. The impacts of this construction on ecological receptors, along with any potential erosion of soil to the creeks would likely be more significant than allowing the lower-concentration metals to remain in their stable resting position and naturally attenuate.

CONCLUSIONS BASED ON STREAMLINED ECOLOGICAL RISK EVALUATION AND PATH FORWARD

The results of this ecological assessment (i.e., low risk to all guilds), and the potential for habitat loss as a result of any large-scale soil removal, have led to the conclusion that any potential actions at the trestles should only be based only on human health considerations. Bridgewater, Inc.'s remedial investigation report and streamlined risk evaluation, dated May 31, 2012, proposed the use of the construction worker exposure scenario. Application of these screening values would address any potential human exposure, and in doing so, would result in the removal of soil with the highest concentrations of arsenic, chromium, and lead. A soil removal driven by the construction worker scenario could be conducted using smaller equipment and potentially hand tools and labor, thereby reducing the impact to the forest lands and ecology.

Please feel free to contact me at 503-464-8141 or by email at arya.behbehani@pgn.com.

Sincerely,

Arya Behbehani, General Manager
Environmental Services

Attachments

c: Clinton Carrico, USFS
Kevin Korman, USFS
Michael Teems, USFS
Tom Torres, USFS
Jim Alexander, OGC
Sarah Miller, ODEQ
Andrew Bidwell, PGE
Brandy Domina, PGE
David Hendrix, PGE
Rich George, PGE
Chris Rich, Perkins Coie
Aaron Leritz, Bridgewater Group
Kathy Godtfredsen, Windward Environmental
Ian Young, Windward Environmental

REFERENCES

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Lee K.E. 1985. Earthworms: their ecology and relationships with soils and land use. Academic Press, Sydney, Australia.

Washington Administrative Code. 2007. 173-340 WAC: Model Toxics Control Act - Cleanup. Chapter 173-340-900, Table 749-4: Wildlife exposure model for site-specific evaluations [online]. Washington State Legislature, Olympia, WA. Updated 10/12/07. Available from: http://apps.leg.wa.gov/wac/default.aspx?cite=173-340-900.

Appendix C – Laboratory Analytical Reports for Canyon Creek Soil and Sediment, and PCBs

Canyon Creek Soil and Sediment Phase 1 & 2

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

June 13, 2008

Brandy Horn
PGE-Environmental Sciences (RC841)
121 SW Salmon St. 3WTCBR05
Portland, OR 97204

RE: Canyon Creek Trestle

Enclosed are the results of analyses for samples received by the laboratory on 06/11/08 11:55.
The following list is a summary of the Work Orders contained in this report, generated on 06/13/08 16:43.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PRF0386	Canyon Creek Trestle	RC841/PO#6645

TestAmerica Portland

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

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ph: (503) 906.9200 fax: (503) 906.9210

PGE-Environmental Sciences (RC841)	Project Name:	**Canyon Creek Trestle**	
121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
080611 CCT-01	PRF0386-01	Soil	06/11/08 00:00	06/11/08 11:55
080611 CCT-02	PRF0386-02	Soil	06/11/08 00:00	06/11/08 11:55
080611 CCT-03	PRF0386-03	Soil	06/11/08 00:00	06/11/08 11:55
080611 CCT-04	PRF0386-04	Soil	06/11/08 00:00	06/11/08 11:55
080611 CCT-05	PRF0386-05	Soil	06/11/08 00:00	06/11/08 11:55
080611 CCT-06	PRF0386-06	Soil	06/11/08 00:00	06/11/08 11:55

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Brian L Cone

Brian Cone, Industrial Services Manager

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PGE-Environmental Sciences (RC841)	Project Name:	**Canyon Creek Trestle**	
121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRF0386-01 (080611 CCT-01)			**Soil**			**Sampled: 06/11/08 00:00**				
Arsenic	EPA 6020	**34.1**	-----	0.557	mg/kg dry	1x	8060437	06/12/08 09:48	06/12/08 21:54	
Barium	"	**224**	-----	0.557	"	"	"	"	"	
Cadmium	"	**20.3**	-----	0.557	"	"	"	"	"	
Chromium	"	**514**	-----	55.7	"	100x	"	"	06/13/08 00:09	
Lead	"	**1450**	-----	55.7	"	"	"	"	"	
Selenium	"	**0.629**	-----	0.557	"	1x	"	"	06/12/08 21:54	
Silver	"	**4.33**	-----	0.557	"	"	"	"	"	
PRF0386-02 (080611 CCT-02)			**Soil**			**Sampled: 06/11/08 00:00**				
Arsenic	EPA 6020	**61.2**	-----	0.594	mg/kg dry	1x	8060437	06/12/08 09:48	06/12/08 22:18	
Barium	"	**277**	-----	0.594	"	"	"	"	"	
Cadmium	"	**11.4**	-----	0.594	"	"	"	"	"	
Chromium	"	**445**	-----	0.594	"	"	"	"	"	
Lead	"	**1130**	-----	59.4	"	100x	"	"	06/13/08 00:17	
Selenium	"	ND	-----	0.594	"	1x	"	"	06/12/08 22:18	
Silver	"	**3.08**	-----	0.594	"	"	"	"	"	
PRF0386-03 (080611 CCT-03)			**Soil**			**Sampled: 06/11/08 00:00**				
Arsenic	EPA 6020	**36.2**	-----	0.584	mg/kg dry	1x	8060437	06/12/08 09:48	06/12/08 22:25	
Barium	"	**174**	-----	0.584	"	"	"	"	"	
Cadmium	"	ND	-----	0.584	"	"	"	"	"	
Chromium	"	**847**	-----	58.4	"	100x	"	"	06/13/08 00:25	
Lead	"	**1110**	-----	58.4	"	"	"	"	"	
Selenium	"	ND	-----	0.584	"	1x	"	"	06/12/08 22:25	
Silver	"	**0.811**	-----	0.584	"	"	"	"	"	
PRF0386-04 (080611 CCT-04)			**Soil**			**Sampled: 06/11/08 00:00**				
Arsenic	EPA 6020	**1.58**	-----	0.596	mg/kg dry	1x	8060437	06/12/08 09:48	06/12/08 22:33	
Barium	"	**101**	-----	0.596	"	"	"	"	"	
Cadmium	"	ND	-----	0.596	"	"	"	"	"	
Chromium	"	**185**	-----	0.596	"	"	"	"	"	
Lead	"	**246**	-----	0.596	"	"	"	"	"	
Selenium	"	ND	-----	0.596	"	"	"	"	"	
Silver	"	ND	-----	0.596	"	"	"	"	"	

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Brian L Cone

Brian Cone, Industrial Services Manager

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PGE-Environmental Sciences (RC841)	Project Name:	**Canyon Creek Trestle**	
121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRF0386-05 (080611 CCT-05)			**Soil**			**Sampled: 06/11/08 00:00**				
Arsenic	EPA 6020	**3.14**	-----	0.622	mg/kg dry	1x	8060437	06/12/08 09:48	06/12/08 23:21	
Barium	"	**54.3**	-----	0.622	"	"	"	"	"	
Cadmium	"	ND	-----	0.622	"	"	"	"	"	
Chromium	"	**1160**	-----	6.22	"	10x	"	"	06/13/08 00:49	
Lead	"	**386**	-----	0.622	"	1x	"	"	06/12/08 23:21	
Selenium	"	ND	-----	0.622	"	"	"	"	"	
Silver	"	ND	-----	0.622	"	"	"	"	"	
PRF0386-06 (080611 CCT-06)			**Soil**			**Sampled: 06/11/08 00:00**				
Arsenic	EPA 6020	**6.44**	-----	0.542	mg/kg dry	1x	8060437	06/12/08 09:48	06/12/08 23:29	
Barium	"	**112**	-----	0.542	"	"	"	"	"	
Cadmium	"	ND	-----	0.542	"	"	"	"	"	
Chromium	"	**1030**	-----	5.42	"	10x	"	"	06/13/08 00:57	
Lead	"	**119**	-----	0.542	"	1x	"	"	06/12/08 23:29	
Selenium	"	ND	-----	0.542	"	"	"	"	"	
Silver	"	ND	-----	0.542	"	"	"	"	"	

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Brian Cone, Industrial Services Manager

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121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Total Mercury per EPA Method 7471A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRF0386-01 (080611 CCT-01)			**Soil**			**Sampled: 06/11/08 00:00**				
Mercury	EPA 7471A	ND	-----	0.0967	mg/kg dry	1x	8060450	06/12/08 12:21	06/12/08 15:09	
PRF0386-02 (080611 CCT-02)			**Soil**			**Sampled: 06/11/08 00:00**				
Mercury	EPA 7471A	ND	-----	0.0956	mg/kg dry	1x	8060450	06/12/08 12:21	06/12/08 15:18	
PRF0386-03 (080611 CCT-03)			**Soil**			**Sampled: 06/11/08 00:00**				
Mercury	EPA 7471A	ND	-----	0.113	mg/kg dry	1x	8060450	06/12/08 12:21	06/12/08 15:20	
PRF0386-04 (080611 CCT-04)			**Soil**			**Sampled: 06/11/08 00:00**				
Mercury	EPA 7471A	ND	-----	0.117	mg/kg dry	1x	8060450	06/12/08 12:21	06/12/08 15:22	
PRF0386-05 (080611 CCT-05)			**Soil**			**Sampled: 06/11/08 00:00**				
Mercury	EPA 7471A	ND	-----	0.113	mg/kg dry	1x	8060450	06/12/08 12:21	06/12/08 15:25	
PRF0386-06 (080611 CCT-06)			**Soil**			**Sampled: 06/11/08 00:00**				
Mercury	EPA 7471A	ND	-----	0.0910	mg/kg dry	1x	8060450	06/12/08 12:21	06/12/08 15:27	

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Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRF0386-01 (080611 CCT-01)			**Soil**			**Sampled: 06/11/08 00:00**				
% Solids	NCA SOP	**89.8**	-----	0.0100	% by Weight	1x	8060463	06/12/08 14:45	06/12/08 14:45	
PRF0386-02 (080611 CCT-02)			**Soil**			**Sampled: 06/11/08 00:00**				
% Solids	NCA SOP	**82.5**	-----	0.0100	% by Weight	1x	8060463	06/12/08 14:45	06/12/08 14:45	
PRF0386-03 (080611 CCT-03)			**Soil**			**Sampled: 06/11/08 00:00**				
% Solids	NCA SOP	**84.8**	-----	0.0100	% by Weight	1x	8060463	06/12/08 14:45	06/12/08 14:45	
PRF0386-04 (080611 CCT-04)			**Soil**			**Sampled: 06/11/08 00:00**				
% Solids	NCA SOP	**83.0**	-----	0.0100	% by Weight	1x	8060463	06/12/08 14:45	06/12/08 14:45	
PRF0386-05 (080611 CCT-05)			**Soil**			**Sampled: 06/11/08 00:00**				
% Solids	NCA SOP	**82.9**	-----	0.0100	% by Weight	1x	8060463	06/12/08 14:45	06/12/08 14:45	
PRF0386-06 (080611 CCT-06)			**Soil**			**Sampled: 06/11/08 00:00**				
% Solids	NCA SOP	**90.4**	-----	0.0100	% by Weight	1x	8060463	06/12/08 14:45	06/12/08 14:45	

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121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8060437 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8060437-BLK1)									Extracted: 06/12/08 09:48					
Arsenic	EPA 6020	ND	---	0.490	mg/kg wet	1x	--	--	--	--	--	--	06/12/08 19:05	
Barium	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
LCS (8060437-BS1)									Extracted: 06/12/08 09:48					
Arsenic	EPA 6020	10.2	---	0.515	mg/kg wet	1x	--	10.3	98.6%	(80-120)	--	--	06/12/08 19:13	
Barium	"	10.1	---	0.515	"	"	--	"	97.5%	"	--	--	"	
Cadmium	"	9.37	---	0.515	"	"	--	"	90.8%	"	--	--	"	
Chromium	"	10.7	---	0.515	"	"	--	"	104%	"	--	--	"	
Lead	"	9.88	---	0.515	"	"	--	"	95.8%	"	--	--	"	
Selenium	"	9.80	---	0.515	"	"	--	"	95.0%	"	--	--	"	
Silver	"	4.94	---	0.515	"	"	--	5.15	95.8%	"	--	--	"	
Matrix Spike (8060437-MS1)				QC Source: PRF0356-01					Extracted: 06/12/08 09:48					
Arsenic	EPA 6020	10.1	---	0.500	mg/kg wet	1x	0.0510	10.0	100%	(75-125)	--	--	06/12/08 21:30	
Barium	"	10.1	---	0.500	"	"	0.628	"	94.9%	"	--	--	"	
Cadmium	"	9.56	---	0.500	"	"	0.661	"	89.0%	"	--	--	"	
Chromium	"	12.4	---	0.500	"	"	2.13	"	103%	"	--	--	"	
Lead	"	10.2	---	0.500	"	"	0.849	"	94.0%	"	--	--	"	
Selenium	"	9.44	---	0.500	"	"	0.0208	"	94.1%	"	--	--	"	
Silver	"	4.74	---	0.500	"	"	0.0385	5.00	94.1%	"	--	--	"	
Matrix Spike Dup (8060437-MSD1)				QC Source: PRF0356-01					Extracted: 06/12/08 09:48					
Arsenic	EPA 6020	10.2	---	0.500	mg/kg wet	1x	0.0510	10.0	101%	(75-125)	0.889%	(40)	06/12/08 21:39	
Barium	"	10.2	---	0.500	"	"	0.628	"	96.2%	"	1.23%	"	"	
Cadmium	"	9.59	---	0.500	"	"	0.661	"	89.3%	"	0.261%	"	"	
Chromium	"	12.4	---	0.500	"	"	2.13	"	103%	"	0.483%	"	"	
Lead	"	10.4	---	0.500	"	"	0.849	"	95.6%	"	1.50%	"	"	
Selenium	"	9.54	---	0.500	"	"	0.0208	"	95.1%	"	1.05%	"	"	
Silver	"	4.76	---	0.500	"	"	0.0385	5.00	94.3%	"	0.295%	"	"	

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Brian L Cone

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

PGE-Environmental Sciences (RC841)	Project Name:	**Canyon Creek Trestle**	
121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

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QC Batch: 8060450 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8060450-BLK1)								**Extracted: 06/12/08 12:21**						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	06/12/08 14:44	
LCS (8060450-BS1)								**Extracted: 06/12/08 12:21**						
Mercury	EPA 7471A	1.03	---	0.100	mg/kg wet	1x	--	1.00	103%	(80-120)	--	--	06/12/08 14:46	
LCS Dup (8060450-BSD1)								**Extracted: 06/12/08 12:21**						
Mercury	EPA 7471A	1.03	---	0.100	mg/kg wet	1x	--	1.00	103%	(80-120)	0.0154%	(20)	06/12/08 14:50	
Duplicate (8060450-DUP1)				**QC Source: PRF0386-01**				**Extracted: 06/12/08 12:21**						
Mercury	EPA 7471A	ND	---	0.0963	mg/kg dry	1x	ND	--	--	--	NR	(40)	06/12/08 14:54	
Matrix Spike (8060450-MS1)				**QC Source: PRF0386-01**				**Extracted: 06/12/08 12:21**						
Mercury	EPA 7471A	1.00	---	0.0925	mg/kg dry	1x	0.0202	0.925	106%	(75-125)	--	--	06/12/08 14:56	
Matrix Spike Dup (8060450-MSD1)				**QC Source: PRF0386-01**				**Extracted: 06/12/08 12:21**						
Mercury	EPA 7471A	0.940	---	0.0898	mg/kg dry	1x	0.0202	0.898	102%	(75-125)	6.16%	(40)	06/12/08 14:59	

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Brian Cone, Industrial Services Manager

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PGE-Environmental Sciences (RC841)	Project Name:	**Canyon Creek Trestle**	
121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

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QC Batch: 8060463 **Other dry Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8060463-DUP1)				**QC Source: PRE0748-06**				**Extracted: 06/12/08 14:45**						
% Solids	NCA SOP	55.6	---	0.0100	% by Weight	1x	56.8	--	--	--	2.14%	(20)	06/12/08 14:45	

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PGE-Environmental Sciences (RC841)	Project Name:	**Canyon Creek Trestle**	
121 SW Salmon St. 3WTCBR05	Project Number:	RC841/PO#6645	Report Created:
Portland, OR 97204	Project Manager:	Brandy Horn	06/13/08 16:43

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Brian L Cone

Brian Cone, Industrial Services Manager

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ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
10224 E. First Ave. Spokane, WA 99206-5307 509-924-9200 FAX 924-9290
4405 NE Numbers Ave. Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
[illegible] FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PRF0386

CLIENT: PGE

REPORT TO: Brandy Horn / Jayne Allen
ADDRESS: 121 SW Salmon St 3WTC B2205
Portland OR 97204
PHONE: 503 464-8970 FAX: 503 464-8507

INVOICE TO: PGE - Env Services

P.O. NUMBER: TERMOD 2847

PROJECT NAME: Canyon Creek Trestle
PROJECT NUMBER:
SAMPLED BY: B Horn

PRESERVATIVE

REQUESTED ANALYSES

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: 10 (STD) | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses: 5 (STD) | 4 | 3 | 2 | 1 | <1
OTHER Specify: Rush
* Turnaround Requests less than standard may incur Rush Charges

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Total Metals	MATRIX (W, S, O)	# OF CONT.	LOCATION COMMENTS	TA WO ID
1	080611 CCT-01	06/11/2008	X	S	1		
2	-02		X	S	1		
3	-03		X	S	1		
4	-04		X	S	1		
5	-05		X	S	1		
6	-06		X	S	1		
7							
8							
9							
10							

RELEASED BY:			DATE: 6/11/08	RECEIVED BY: Peggy Siegfried		DATE: 6/11/08
PRINT NAME: Brandy Horn	FIRM: PGE		TIME: 11:55 am	PRINT NAME: Peggy Siegfried	FIRM: TAP	TIME: 1155
RELEASED BY:			DATE:	RECEIVED BY:		DATE:
PRINT NAME:	FIRM:		TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 14.2

PAGE OF

TAL 1000 0907

TestAmerica Sample Receipt Checklist

Received by: (section A)
Date: 6/11/08
Time: 11:55
Initials: PS

Unpacked by: (section B)
Date: 6/11/08
Initials: JI

Logged-in by:
Date: 6/11/08
Initials: PS

Work Order No. PRF0386
Client: PGE
Project: Canyon Creek Trestle

Temperature out of range
Not enough Ice
X No Ice
Ice Melted
Win 4 Hours
Other:

***ESI Clients (see Section C)

Cooler Temperature (IR): 14.2 °C plastic glass NA (oil/air OR ESI client) Temperature Blank: ____ °C DIGI #1 #2

A

Custody Seals: (#____)

Signature: Y N Dated:_____
X None

Container Type:
____#Cooler(s)
____#Box(s)
X None (___#Other:_____)

Coolant Type:
____Gel/ Blue Ice
____Loose Ice
X None

Packing Material:
____Bubble Bags
____Styrofoam Cubbies
____Peanuts
X None (____Other:_____)

Received from:
____TA Courier
____Senvoy
____UPS
____Fed Ex
X Client
____TDP
____USPS
____SDS
____Mid-Valley
____GS/TA
____GS/Senvoy
____Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:
Intact? Y N
Containers Match COC? Y N none given
IDs Match COC? Y N

For Analyses Requested:
Cyanide checked? Y N NA
Correct Type & Preservation? Y N
Adequate Volume? Y N
Within Hold Time? Y N

Volatiles/ Oil Quality:
VOAs/ Syringes free of Headspace? Y N NA
TB on COC? not provided Y N NA

Metals:
HNO3 Preserved? Y N NA
Dissolved Metals Filtered? Y N NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided DIGI #1 #2

All preserved bottles checked Y N NA (voas/soils/all unp.)
All preserved accordingly? Y N (see NOD) NA (voas/soils/all unp.)

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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ORELAP#: OR100021

July 31, 2008

Dave Pardue
Hahn and Associates, Inc.
434 NW Sixth Ave., Suite 203
Portland, OR 97209

RE: CCT RPD

Enclosed are the results of analyses for samples received by the laboratory on 07/17/08 11:40. The following list is a summary of the Work Orders contained in this report, generated on 07/31/08 14:27.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PRG0566	CCT RPD	7518

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Darrell Auvil, Project Manager

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
001	PRG0566-01	Soil	07/16/08 10:33	07/17/08 11:40
002	PRG0566-02	Soil	07/16/08 10:31	07/17/08 11:40
003	PRG0566-03	Soil	07/16/08 10:38	07/17/08 11:40
004	PRG0566-04	Soil	07/16/08 10:45	07/17/08 11:40
005	PRG0566-05	Soil	07/16/08 10:37	07/17/08 11:40
006	PRG0566-06	Soil	07/16/08 10:54	07/17/08 11:40
007	PRG0566-07	Soil	07/16/08 10:49	07/17/08 11:40
008	PRG0566-08	Soil	07/16/08 10:53	07/17/08 11:40
009	PRG0566-09	Soil	07/16/08 10:49	07/17/08 11:40
010	PRG0566-10	Soil	07/16/08 10:59	07/17/08 11:40
011	PRG0566-11	Soil	07/16/08 11:01	07/17/08 11:40
012	PRG0566-12	Soil	07/16/08 11:08	07/17/08 11:40
013	PRG0566-13	Soil	07/16/08 11:10	07/17/08 11:40
014	PRG0566-14	Soil	07/16/08 11:16	07/17/08 11:40
015	PRG0566-15	Soil	07/16/08 11:12	07/17/08 11:40
016	PRG0566-16	Soil	07/16/08 11:19	07/17/08 11:40
017	PRG0566-17	Soil	07/16/08 11:16	07/17/08 11:40
018	PRG0566-18	Soil	07/16/08 11:30	07/17/08 11:40
019	PRG0566-19	Soil	07/16/08 11:25	07/17/08 11:40
020	PRG0566-20	Soil	07/16/08 11:27	07/17/08 11:40
021	PRG0566-21	Soil	07/16/08 11:26	07/17/08 11:40
022	PRG0566-22	Soil	07/16/08 11:35	07/17/08 11:40
023	PRG0566-23	Soil	07/16/08 11:41	07/17/08 11:40
024	PRG0566-24	Soil	07/16/08 11:45	07/17/08 11:40
025	PRG0566-25	Soil	07/16/08 11:41	07/17/08 11:40
026	PRG0566-26	Soil	07/16/08 11:48	07/17/08 11:40
027	PRG0566-27	Soil	07/16/08 11:40	07/17/08 11:40
028	PRG0566-28	Soil	07/16/08 11:58	07/17/08 11:40
029	PRG0566-29	Soil	07/16/08 11:55	07/17/08 11:40
030	PRG0566-30	Soil	07/16/08 11:51	07/17/08 11:40
031	PRG0566-31	Soil	07/16/08 11:31	07/17/08 11:40
032	PRG0566-32	Soil	07/16/08 11:57	07/17/08 11:40
033	PRG0566-33	Soil	07/16/08 11:55	07/17/08 11:40
034	PRG0566-34	Soil	07/16/08 12:08	07/17/08 11:40
035	PRG0566-35	Soil	07/16/08 12:02	07/17/08 11:40

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
036	PRG0566-36	Soil	07/16/08 12:05	07/17/08 11:40

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-01 (001)			**Soil**			**Sampled: 07/16/08 10:33**				
Arsenic	EPA 6020	**15.7**	-----	2.64	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 02:06	
Barium	"	**77.5**	-----	2.64	"	"	"	"	"	
Cadmium	"	ND	-----	2.64	"	"	"	"	"	**RL1**
Chromium	"	**1050**	-----	2.64	"	"	"	"	"	
Lead	"	**288**	-----	2.64	"	"	"	"	"	
Selenium	"	ND	-----	2.64	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.64	"	"	"	"	"	**RL1**
PRG0566-02 (002)			**Soil**			**Sampled: 07/16/08 10:31**				
Arsenic	EPA 6020	**58.6**	-----	2.59	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 02:20	
Barium	"	**248**	-----	2.59	"	"	"	"	"	
Cadmium	"	**19.6**	-----	2.59	"	"	"	"	"	
Chromium	"	**611**	-----	2.59	"	"	"	"	"	
Lead	"	**1990**	-----	2.59	"	"	"	"	"	
Selenium	"	ND	-----	2.59	"	"	"	"	"	**RL1**
Silver	"	**5.01**	-----	2.59	"	"	"	"	"	
PRG0566-03 (003)			**Soil**			**Sampled: 07/16/08 10:38**				
Arsenic	EPA 6020	**4.49**	-----	2.66	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 02:27	
Barium	"	**59.6**	-----	2.66	"	"	"	"	"	
Cadmium	"	ND	-----	2.66	"	"	"	"	"	**RL1**
Chromium	"	**46.5**	-----	2.66	"	"	"	"	"	
Lead	"	**155**	-----	2.66	"	"	"	"	"	
Selenium	"	ND	-----	2.66	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.66	"	"	"	"	"	**RL1**
PRG0566-04 (004)			**Soil**			**Sampled: 07/16/08 10:45**				
Arsenic	EPA 6020	**28.1**	-----	2.51	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 02:35	
Barium	"	**159**	-----	2.51	"	"	"	"	"	
Cadmium	"	**14.7**	-----	2.51	"	"	"	"	"	
Chromium	"	**666**	-----	2.51	"	"	"	"	"	
Lead	"	**1550**	-----	2.51	"	"	"	"	"	
Selenium	"	ND	-----	2.51	"	"	"	"	"	**RL1**
Silver	"	**3.23**	-----	2.51	"	"	"	"	"	

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Darrell Auvil, Project Manager

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-05 (005)			**Soil**			**Sampled: 07/16/08 10:37**				
Arsenic	EPA 6020	**21.6**	-----	2.55	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 02:42	
Barium	"	**110**	-----	2.55	"	"	"	"	"	
Cadmium	"	**7.10**	-----	2.55	"	"	"	"	"	
Chromium	"	**777**	-----	2.55	"	"	"	"	"	
Lead	"	**958**	-----	2.55	"	"	"	"	"	
Selenium	"	ND	-----	2.55	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.55	"	"	"	"	"	**RL1**
PRG0566-06 (006)			**Soil**			**Sampled: 07/16/08 10:54**				
Arsenic	EPA 6020	**11.1**	-----	2.63	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 03:03	
Barium	"	**162**	-----	2.63	"	"	"	"	"	
Cadmium	"	ND	-----	2.63	"	"	"	"	"	**RL1**
Chromium	"	**58.3**	-----	2.63	"	"	"	"	"	
Lead	"	**208**	-----	2.63	"	"	"	"	"	
Selenium	"	ND	-----	2.63	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.63	"	"	"	"	"	**RL1**
PRG0566-07 (007)			**Soil**			**Sampled: 07/16/08 10:49**				
Arsenic	EPA 6020	**60.7**	-----	2.60	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 03:11	
Barium	"	**272**	-----	2.60	"	"	"	"	"	
Cadmium	"	**25.2**	-----	2.60	"	"	"	"	"	
Chromium	"	**370**	-----	2.60	"	"	"	"	"	
Lead	"	**2850**	-----	5.21	"	10x	"	"	07/29/08 17:05	
Selenium	"	ND	-----	2.60	"	5x	"	"	07/29/08 03:11	**RL1**
Silver	"	**6.22**	-----	2.60	"	"	"	"	"	
PRG0566-08 (008)			**Soil**			**Sampled: 07/16/08 10:53**				
Arsenic	EPA 6020	**24.0**	-----	2.55	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 03:18	
Barium	"	**124**	-----	2.55	"	"	"	"	"	
Cadmium	"	**2.64**	-----	2.55	"	"	"	"	"	
Chromium	"	**725**	-----	2.55	"	"	"	"	"	
Lead	"	**468**	-----	2.55	"	"	"	"	"	
Selenium	"	ND	-----	2.55	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.55	"	"	"	"	"	**RL1**

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-09 (009)			**Soil**			**Sampled: 07/16/08 10:49**				
Arsenic	EPA 6020	**15.6**	-----	2.62	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 03:25	
Barium	"	**116**	-----	2.62	"	"	"	"	"	
Cadmium	"	ND	-----	2.62	"	"	"	"	"	**RL1**
Chromium	"	**439**	-----	2.62	"	"	"	"	"	
Lead	"	**227**	-----	2.62	"	"	"	"	"	
Selenium	"	ND	-----	2.62	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.62	"	"	"	"	"	**RL1**
PRG0566-10 (010)			**Soil**			**Sampled: 07/16/08 10:59**				
Arsenic	EPA 6020	**8.20**	-----	2.44	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 03:32	
Barium	"	**40.8**	-----	2.44	"	"	"	"	"	
Cadmium	"	ND	-----	2.44	"	"	"	"	"	**RL1**
Chromium	"	**1400**	-----	2.44	"	"	"	"	"	
Lead	"	**152**	-----	2.44	"	"	"	"	"	
Selenium	"	ND	-----	2.44	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.44	"	"	"	"	"	**RL1**
PRG0566-11 (011)			**Soil**			**Sampled: 07/16/08 11:01**				
Arsenic	EPA 6020	**11.3**	-----	2.60	mg/kg dry	5x	8070674	07/21/08 15:35	07/29/08 03:40	
Barium	"	**96.0**	-----	2.60	"	"	"	"	"	
Cadmium	"	ND	-----	2.60	"	"	"	"	"	**RL1**
Chromium	"	**92.7**	-----	2.60	"	"	"	"	"	
Lead	"	**486**	-----	2.60	"	"	"	"	"	
Selenium	"	ND	-----	2.60	"	"	"	"	"	**RL1**
Silver	"	ND	-----	2.60	"	"	"	"	"	**RL1**
PRG0566-12 (012)			**Soil**			**Sampled: 07/16/08 11:08**				
Arsenic	EPA 6020	**48.5**	-----	2.85	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 04:16	
Barium	"	**293**	-----	0.570	"	1x	"	"	07/23/08 23:25	
Cadmium	"	**1.45**	-----	0.570	"	"	"	"	"	
Chromium	"	**410**	-----	0.570	"	"	"	"	07/25/08 02:35	
Lead	"	**424**	-----	2.85	"	5x	"	"	07/29/08 04:16	
Selenium	"	ND	-----	2.85	"	"	"	"	"	
Silver	"	**0.964**	-----	0.570	"	1x	"	"	07/23/08 23:25	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-13 (013)			**Soil**			**Sampled: 07/16/08 11:10**				
Arsenic	EPA 6020	**25.1**	-----	2.47	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 04:30	
Barium	"	**135**	-----	0.493	"	1x	"	"	07/23/08 23:39	
Cadmium	"	ND	-----	0.493	"	"	"	"	"	
Chromium	"	**1210**	-----	4.93	"	10x	"	"	07/25/08 00:30	
Lead	"	**259**	-----	2.47	"	5x	"	"	07/29/08 04:30	
Selenium	"	ND	-----	2.47	"	"	"	"	"	
Silver	"	ND	-----	0.493	"	1x	"	"	07/23/08 23:39	
PRG0566-14 (014)			**Soil**			**Sampled: 07/16/08 11:16**				
Arsenic	EPA 6020	**61.7**	-----	2.79	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 04:52	
Barium	"	**231**	-----	0.557	"	1x	"	"	07/24/08 00:13	
Cadmium	"	ND	-----	0.557	"	"	"	"	"	
Chromium	"	**832**	-----	5.57	"	10x	"	"	07/25/08 00:43	
Lead	"	**213**	-----	2.79	"	5x	"	"	07/29/08 04:52	
Selenium	"	ND	-----	2.79	"	"	"	"	"	
Silver	"	**0.852**	-----	0.557	"	1x	"	"	07/24/08 00:13	
PRG0566-15 (015)			**Soil**			**Sampled: 07/16/08 11:12**				
Arsenic	EPA 6020	**20.5**	-----	2.77	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 05:21	
Barium	"	**169**	-----	0.554	"	1x	"	"	07/24/08 00:45	
Cadmium	"	ND	-----	0.554	"	"	"	"	"	
Chromium	"	**525**	-----	5.54	"	10x	"	"	07/25/08 00:56	
Lead	"	**195**	-----	2.77	"	5x	"	"	07/29/08 05:21	
Selenium	"	ND	-----	2.77	"	"	"	"	"	
Silver	"	**0.599**	-----	0.554	"	1x	"	"	07/24/08 00:45	
PRG0566-16 (016)			**Soil**			**Sampled: 07/16/08 11:19**				
Arsenic	EPA 6020	**53.7**	-----	2.58	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 05:28	
Barium	"	**298**	-----	0.515	"	1x	"	"	07/24/08 00:51	
Cadmium	"	ND	-----	0.515	"	"	"	"	"	
Chromium	"	**442**	-----	0.515	"	"	"	"	07/25/08 03:48	
Lead	"	**171**	-----	2.58	"	5x	"	"	07/29/08 05:28	
Selenium	"	ND	-----	2.58	"	"	"	"	"	
Silver	"	**1.13**	-----	0.515	"	1x	"	"	07/24/08 00:51	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-17 (017)			**Soil**			**Sampled: 07/16/08 11:16**				
Arsenic	EPA 6020	**5.25**	-----	2.68	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 05:36	
Barium	"	**264**	-----	0.537	"	1x	"	"	07/24/08 00:58	
Cadmium	"	ND	-----	0.537	"	"	"	"	"	
Chromium	"	**93.5**	-----	0.537	"	"	"	"	07/25/08 03:54	
Lead	"	**35.2**	-----	2.68	"	5x	"	"	07/29/08 05:36	
Selenium	"	ND	-----	2.68	"	"	"	"	"	
Silver	"	ND	-----	0.537	"	1x	"	"	07/24/08 00:58	
PRG0566-18 (018)			**Soil**			**Sampled: 07/16/08 11:30**				
Arsenic	EPA 6020	ND	-----	3.03	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 05:43	
Barium	"	**113**	-----	0.606	"	1x	"	"	07/24/08 01:03	
Cadmium	"	ND	-----	0.606	"	"	"	"	"	
Chromium	"	**290**	-----	0.606	"	"	"	"	07/25/08 04:00	
Lead	"	**67.9**	-----	3.03	"	5x	"	"	07/29/08 05:43	
Selenium	"	ND	-----	3.03	"	"	"	"	"	
Silver	"	ND	-----	0.606	"	1x	"	"	07/24/08 01:03	
PRG0566-19 (019)			**Soil**			**Sampled: 07/16/08 11:25**				
Arsenic	EPA 6020	ND	-----	4.89	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 17:27	
Barium	"	**59.1**	-----	0.978	"	1x	"	"	07/24/08 01:09	
Cadmium	"	ND	-----	0.978	"	"	"	"	"	
Chromium	"	**956**	-----	0.978	"	"	"	"	07/25/08 04:06	
Lead	"	**82.3**	-----	4.89	"	5x	"	"	07/29/08 17:27	
Selenium	"	ND	-----	4.89	"	"	"	"	"	
Silver	"	ND	-----	0.978	"	1x	"	"	07/24/08 01:09	
PRG0566-20 (020)			**Soil**			**Sampled: 07/16/08 11:27**				
Arsenic	EPA 6020	**4.90**	-----	2.58	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 05:57	
Barium	"	**65.9**	-----	0.515	"	1x	"	"	07/24/08 01:14	
Cadmium	"	ND	-----	0.515	"	"	"	"	"	
Chromium	"	**997**	-----	5.15	"	10x	"	"	07/25/08 01:13	
Lead	"	**86.5**	-----	2.58	"	5x	"	"	07/29/08 05:57	
Selenium	"	ND	-----	2.58	"	"	"	"	"	
Silver	"	ND	-----	0.515	"	1x	"	"	07/24/08 01:14	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-21 (021)			**Soil**			**Sampled: 07/16/08 11:26**				
Arsenic	EPA 6020	**4.71**	-----	2.53	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 06:05	
Barium	"	**64.6**	-----	0.507	"	1x	"	"	07/24/08 01:20	
Cadmium	"	ND	-----	0.507	"	"	"	"	"	
Chromium	"	**598**	-----	5.07	"	10x	"	"	07/25/08 01:34	
Lead	"	**856**	-----	2.53	"	5x	"	"	07/29/08 06:05	
Selenium	"	ND	-----	2.53	"	"	"	"	"	
Silver	"	ND	-----	0.507	"	1x	"	"	07/24/08 01:20	
PRG0566-22 (022)			**Soil**			**Sampled: 07/16/08 11:35**				
Arsenic	EPA 6020	ND	-----	2.69	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 06:12	
Barium	"	**133**	-----	0.537	"	1x	"	"	07/24/08 01:26	
Cadmium	"	ND	-----	0.537	"	"	"	"	"	
Chromium	"	**149**	-----	0.537	"	"	"	"	07/25/08 04:22	
Lead	"	**76.9**	-----	2.69	"	5x	"	"	07/29/08 06:12	
Selenium	"	ND	-----	2.69	"	"	"	"	"	
Silver	"	ND	-----	0.537	"	1x	"	"	07/24/08 01:26	
PRG0566-23 (023)			**Soil**			**Sampled: 07/16/08 11:41**				
Arsenic	EPA 6020	ND	-----	2.57	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 06:34	
Barium	"	**67.3**	-----	0.513	"	1x	"	"	07/24/08 01:31	
Cadmium	"	ND	-----	0.513	"	"	"	"	"	
Chromium	"	**714**	-----	5.13	"	10x	"	"	07/25/08 01:40	
Lead	"	**411**	-----	2.57	"	5x	"	"	07/29/08 06:34	
Selenium	"	ND	-----	2.57	"	"	"	"	"	
Silver	"	ND	-----	0.513	"	1x	"	"	07/24/08 01:31	
PRG0566-24 (024)			**Soil**			**Sampled: 07/16/08 11:45**				
Arsenic	EPA 6020	**5.37**	-----	2.45	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 06:41	
Barium	"	**80.5**	-----	0.489	"	1x	"	"	07/24/08 01:52	
Cadmium	"	ND	-----	0.489	"	"	"	"	"	
Chromium	"	**1010**	-----	4.89	"	10x	"	"	07/25/08 01:46	
Lead	"	**116**	-----	2.45	"	5x	"	"	07/29/08 06:41	
Selenium	"	ND	-----	2.45	"	"	"	"	"	
Silver	"	ND	-----	0.489	"	1x	"	"	07/24/08 01:52	

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-25 (025)			**Soil**			**Sampled: 07/16/08 11:41**				
Arsenic	EPA 6020	ND	-----	4.68	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 06:48	
Barium	"	**78.2**	-----	0.936	"	1x	"	"	07/24/08 01:58	
Cadmium	"	ND	-----	0.936	"	"	"	"	"	
Chromium	"	**721**	-----	9.36	"	10x	"	"	07/25/08 01:51	
Lead	"	**159**	-----	4.68	"	5x	"	"	07/29/08 06:48	
Selenium	"	ND	-----	4.68	"	"	"	"	"	
Silver	"	ND	-----	0.936	"	1x	"	"	07/24/08 01:58	
PRG0566-26 (026)			**Soil**			**Sampled: 07/16/08 11:48**				
Arsenic	EPA 6020	**5.16**	-----	2.49	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 06:56	
Barium	"	**104**	-----	0.499	"	1x	"	"	07/24/08 02:03	
Cadmium	"	ND	-----	0.499	"	"	"	"	"	
Chromium	"	**1050**	-----	4.99	"	10x	"	"	07/25/08 01:57	
Lead	"	**92.9**	-----	2.49	"	5x	"	"	07/29/08 06:56	
Selenium	"	ND	-----	2.49	"	"	"	"	"	
Silver	"	ND	-----	0.499	"	1x	"	"	07/24/08 02:03	
PRG0566-27 (027)			**Soil**			**Sampled: 07/16/08 11:40**				
Arsenic	EPA 6020	**6.90**	-----	2.47	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 07:03	
Barium	"	**113**	-----	0.495	"	1x	"	"	07/24/08 02:09	
Cadmium	"	ND	-----	0.495	"	"	"	"	"	
Chromium	"	**1030**	-----	4.95	"	10x	"	"	07/25/08 02:03	
Lead	"	**122**	-----	2.47	"	5x	"	"	07/29/08 07:03	
Selenium	"	ND	-----	2.47	"	"	"	"	"	
Silver	"	ND	-----	0.495	"	1x	"	"	07/24/08 02:09	
PRG0566-28 (028)			**Soil**			**Sampled: 07/16/08 11:58**				
Arsenic	EPA 6020	ND	-----	2.66	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 07:10	
Barium	"	**115**	-----	0.531	"	1x	"	"	07/24/08 02:14	
Cadmium	"	ND	-----	2.66	"	5x	"	"	07/25/08 19:22	**RL1**
Chromium	"	**313**	-----	2.66	"	"	"	"	"	
Lead	"	**41.9**	-----	2.66	"	"	"	"	07/29/08 07:10	
Selenium	"	ND	-----	2.66	"	"	"	"	"	
Silver	"	ND	-----	2.66	"	"	"	"	07/25/08 19:22	**RL1**

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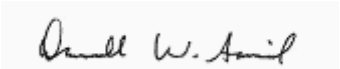

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-29 (029)			**Soil**			**Sampled: 07/16/08 11:55**				
Arsenic	EPA 6020	**5.68**	-----	2.47	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 07:18	
Barium	"	**103**	-----	0.494	"	1x	"	"	07/24/08 02:19	
Cadmium	"	ND	-----	2.47	"	5x	"	"	07/25/08 19:27	**RL1**
Chromium	"	**1290**	-----	2.47	"	"	"	"	"	
Lead	"	**157**	-----	2.47	"	"	"	"	07/29/08 07:18	
Selenium	"	ND	-----	2.47	"	"	"	"	"	
Silver	"	ND	-----	2.47	"	"	"	"	07/25/08 19:27	**RL1**
PRG0566-30 (030)			**Soil**			**Sampled: 07/16/08 11:51**				
Arsenic	EPA 6020	**5.17**	-----	2.78	mg/kg dry	5x	8070677	07/21/08 17:07	07/29/08 07:25	
Barium	"	**119**	-----	0.556	"	1x	"	"	07/24/08 02:25	
Cadmium	"	ND	-----	2.78	"	5x	"	"	07/25/08 19:33	**RL1**
Chromium	"	**862**	-----	2.78	"	"	"	"	"	
Lead	"	**66.0**	-----	2.78	"	"	"	"	07/29/08 07:25	
Selenium	"	ND	-----	2.78	"	"	"	"	"	
Silver	"	ND	-----	2.78	"	"	"	"	07/25/08 19:33	**RL1**
PRG0566-31 (031)			**Soil**			**Sampled: 07/16/08 11:31**				
Arsenic	EPA 6020	ND	-----	0.490	mg/kg	1x	8070746	07/22/08 08:42	07/23/08 00:49	
Barium	"	**7.79**	-----	0.490	"	"	"	"	"	
Cadmium	"	ND	-----	0.490	"	"	"	"	"	
Chromium	"	**3.47**	-----	0.490	"	"	"	"	"	
Lead	"	**2.85**	-----	0.490	"	"	"	"	"	
Selenium	"	ND	-----	0.490	"	"	"	"	"	
Silver	"	ND	-----	0.490	"	"	"	"	"	
PRG0566-32 (032)			**Soil**			**Sampled: 07/16/08 11:57**				
Arsenic	EPA 6020	**1.92**	-----	0.505	mg/kg	1x	8070746	07/22/08 08:42	07/22/08 20:22	
Barium	"	**23.3**	-----	0.505	"	"	"	"	"	
Cadmium	"	ND	-----	0.505	"	"	"	"	"	
Chromium	"	**13.8**	-----	0.505	"	"	"	"	"	
Lead	"	**3.89**	-----	0.505	"	"	"	"	"	
Selenium	"	ND	-----	0.505	"	"	"	"	"	
Silver	"	ND	-----	0.505	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-33 (033)			**Soil**			**Sampled: 07/16/08 11:55**				
Arsenic	EPA 6020	**2.87**	-----	0.510	mg/kg	1x	8070746	07/22/08 08:42	07/22/08 20:28	
Barium	"	**67.8**	-----	0.510	"	"	"	"	"	
Cadmium	"	ND	-----	0.510	"	"	"	"	"	
Chromium	"	**273**	-----	0.510	"	"	"	"	"	
Lead	"	**98.8**	-----	0.510	"	"	"	"	"	
Selenium	"	ND	-----	0.510	"	"	"	"	"	
Silver	"	ND	-----	0.510	"	"	"	"	"	
PRG0566-34 (034)			**Soil**			**Sampled: 07/16/08 12:08**				
Arsenic	EPA 6020	**1.48**	-----	0.505	mg/kg	1x	8070746	07/22/08 08:42	07/22/08 20:33	
Barium	"	**48.6**	-----	0.505	"	"	"	"	"	
Cadmium	"	ND	-----	0.505	"	"	"	"	"	
Chromium	"	**22.5**	-----	0.505	"	"	"	"	"	
Lead	"	**6.26**	-----	0.505	"	"	"	"	"	
Selenium	"	ND	-----	0.505	"	"	"	"	"	
Silver	"	ND	-----	0.505	"	"	"	"	"	
PRG0566-35 (035)			**Soil**			**Sampled: 07/16/08 12:02**				
Arsenic	EPA 6020	**2.22**	-----	0.495	mg/kg	1x	8070746	07/22/08 08:42	07/22/08 20:38	
Barium	"	**146**	-----	0.495	"	"	"	"	"	
Cadmium	"	ND	-----	0.495	"	"	"	"	"	
Chromium	"	**40.5**	-----	0.495	"	"	"	"	"	
Lead	"	**5.40**	-----	0.495	"	"	"	"	"	
Selenium	"	ND	-----	0.495	"	"	"	"	"	
Silver	"	ND	-----	0.495	"	"	"	"	"	
PRG0566-36 (036)			**Soil**			**Sampled: 07/16/08 12:05**				
Arsenic	EPA 6020	**2.12**	-----	0.521	mg/kg	1x	8070746	07/22/08 08:42	07/22/08 20:44	
Barium	"	**50.7**	-----	0.521	"	"	"	"	"	
Cadmium	"	ND	-----	0.521	"	"	"	"	"	
Chromium	"	**31.5**	-----	0.521	"	"	"	"	"	
Lead	"	**9.56**	-----	0.521	"	"	"	"	"	
Selenium	"	ND	-----	0.521	"	"	"	"	"	
Silver	"	ND	-----	0.521	"	"	"	"	"	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Mercury per EPA Method 7471A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-01 (001)			**Soil**			**Sampled: 07/16/08 10:33**				
Mercury	EPA 7471A	ND	-----	0.0826	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:17	
PRG0566-02 (002)			**Soil**			**Sampled: 07/16/08 10:31**				
Mercury	EPA 7471A	ND	-----	0.0690	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:19	
PRG0566-03 (003)			**Soil**			**Sampled: 07/16/08 10:38**				**RL1**
Mercury	EPA 7471A	ND	-----	0.247	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:21	
PRG0566-04 (004)			**Soil**			**Sampled: 07/16/08 10:45**				
Mercury	EPA 7471A	ND	-----	0.0930	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:24	
PRG0566-05 (005)			**Soil**			**Sampled: 07/16/08 10:37**				
Mercury	EPA 7471A	ND	-----	0.0809	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:32	
PRG0566-06 (006)			**Soil**			**Sampled: 07/16/08 10:54**				
Mercury	EPA 7471A	**0.0566**	-----	0.0429	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:34	
PRG0566-07 (007)			**Soil**			**Sampled: 07/16/08 10:49**				
Mercury	EPA 7471A	ND	-----	0.0775	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:37	
PRG0566-08 (008)			**Soil**			**Sampled: 07/16/08 10:53**				
Mercury	EPA 7471A	ND	-----	0.0863	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:39	
PRG0566-09 (009)			**Soil**			**Sampled: 07/16/08 10:49**				
Mercury	EPA 7471A	ND	-----	0.0771	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:41	
PRG0566-10 (010)			**Soil**			**Sampled: 07/16/08 10:59**				
Mercury	EPA 7471A	ND	-----	0.0909	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:43	
PRG0566-11 (011)			**Soil**			**Sampled: 07/16/08 11:01**				
Mercury	EPA 7471A	ND	-----	0.0452	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:46	

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Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Mercury per EPA Method 7471A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-12 (012)			**Soil**			**Sampled: 07/16/08 11:08**				
Mercury	EPA 7471A	ND	-----	0.0842	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:48	
PRG0566-13 (013)			**Soil**			**Sampled: 07/16/08 11:10**				
Mercury	EPA 7471A	ND	-----	0.0596	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:50	
PRG0566-14 (014)			**Soil**			**Sampled: 07/16/08 11:16**				
Mercury	EPA 7471A	ND	-----	0.0807	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 14:52	
PRG0566-15 (015)			**Soil**			**Sampled: 07/16/08 11:12**				
Mercury	EPA 7471A	ND	-----	0.0668	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 15:01	
PRG0566-16 (016)			**Soil**			**Sampled: 07/16/08 11:19**				
Mercury	EPA 7471A	ND	-----	0.0685	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 15:03	
PRG0566-17 (017)			**Soil**			**Sampled: 07/16/08 11:16**				
Mercury	EPA 7471A	ND	-----	0.0640	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 15:05	
PRG0566-18 (018)			**Soil**			**Sampled: 07/16/08 11:30**				
Mercury	EPA 7471A	ND	-----	0.0902	mg/kg dry	1x	8070702	07/21/08 10:13	07/21/08 15:07	
PRG0566-19 (019)			**Soil**			**Sampled: 07/16/08 11:25**				
Mercury	EPA 7471A	ND	-----	0.138	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 15:39	
PRG0566-20 (020)			**Soil**			**Sampled: 07/16/08 11:27**				
Mercury	EPA 7471A	ND	-----	0.0794	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 15:41	
PRG0566-21 (021)			**Soil**			**Sampled: 07/16/08 11:26**				
Mercury	EPA 7471A	ND	-----	0.0683	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 15:43	
PRG0566-22 (022)			**Soil**			**Sampled: 07/16/08 11:35**				
Mercury	EPA 7471A	ND	-----	0.0910	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 15:46	

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Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Mercury per EPA Method 7471A

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-23 (023)			**Soil**			**Sampled: 07/16/08 11:41**				
Mercury	EPA 7471A	ND	-----	0.0766	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 15:54	
PRG0566-24 (024)			**Soil**			**Sampled: 07/16/08 11:45**				
Mercury	EPA 7471A	ND	-----	0.0791	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 15:56	
PRG0566-25 (025)			**Soil**			**Sampled: 07/16/08 11:41**				
Mercury	EPA 7471A	ND	-----	0.175	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 15:59	
PRG0566-26 (026)			**Soil**			**Sampled: 07/16/08 11:48**				
Mercury	EPA 7471A	ND	-----	0.0697	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:01	
PRG0566-27 (027)			**Soil**			**Sampled: 07/16/08 11:40**				
Mercury	EPA 7471A	ND	-----	0.0686	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:03	
PRG0566-28 (028)			**Soil**			**Sampled: 07/16/08 11:58**				
Mercury	EPA 7471A	ND	-----	0.0784	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:05	
PRG0566-29 (029)			**Soil**			**Sampled: 07/16/08 11:55**				
Mercury	EPA 7471A	ND	-----	0.0795	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:08	
PRG0566-30 (030)			**Soil**			**Sampled: 07/16/08 11:51**				
Mercury	EPA 7471A	ND	-----	0.0742	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:10	
PRG0566-31 (031)			**Soil**			**Sampled: 07/16/08 11:31**				
Mercury	EPA 7471A	ND	-----	0.186	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:12	
PRG0566-32 (032)			**Soil**			**Sampled: 07/16/08 11:57**				
Mercury	EPA 7471A	ND	-----	0.149	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:14	
PRG0566-33 (033)			**Soil**			**Sampled: 07/16/08 11:55**				
Mercury	EPA 7471A	ND	-----	0.0899	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:22	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Mercury per EPA Method 7471A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-34 (034)			**Soil**			**Sampled: 07/16/08 12:08**				
Mercury	EPA 7471A	**0.159**	-----	0.110	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:24	
PRG0566-35 (035)			**Soil**			**Sampled: 07/16/08 12:02**				
Mercury	EPA 7471A	**0.0892**	-----	0.0848	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:27	
PRG0566-36 (036)			**Soil**			**Sampled: 07/16/08 12:05**				
Mercury	EPA 7471A	ND	-----	0.157	mg/kg dry	1x	8070703	07/21/08 10:17	07/21/08 16:29	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
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Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-01 (001)			**Soil**			**Sampled: 07/16/08 10:33**				
% Solids	NCA SOP	**91.2**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-02 (002)			**Soil**			**Sampled: 07/16/08 10:31**				
% Solids	NCA SOP	**99.5**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-03 (003)			**Soil**			**Sampled: 07/16/08 10:38**				
% Solids	NCA SOP	**91.1**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-04 (004)			**Soil**			**Sampled: 07/16/08 10:45**				
% Solids	NCA SOP	**97.7**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-05 (005)			**Soil**			**Sampled: 07/16/08 10:37**				
% Solids	NCA SOP	**98.1**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-06 (006)			**Soil**			**Sampled: 07/16/08 10:54**				
% Solids	NCA SOP	**91.3**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-07 (007)			**Soil**			**Sampled: 07/16/08 10:49**				
% Solids	NCA SOP	**98.0**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-08 (008)			**Soil**			**Sampled: 07/16/08 10:53**				
% Solids	NCA SOP	**96.9**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-09 (009)			**Soil**			**Sampled: 07/16/08 10:49**				
% Solids	NCA SOP	**94.3**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-10 (010)			**Soil**			**Sampled: 07/16/08 10:59**				
% Solids	NCA SOP	**99.3**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-11 (011)			**Soil**			**Sampled: 07/16/08 11:01**				

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-11 (011)			**Soil**			**Sampled: 07/16/08 11:01**				
% Solids	NCA SOP	**97.1**	-----	0.0100	% by Weight	1x	8071025	07/29/08 10:16	07/29/08 10:16	
PRG0566-12 (012)			**Soil**			**Sampled: 07/16/08 11:08**				
% Solids	NCA SOP	**84.3**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-13 (013)			**Soil**			**Sampled: 07/16/08 11:10**				
% Solids	NCA SOP	**97.5**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-14 (014)			**Soil**			**Sampled: 07/16/08 11:16**				
% Solids	NCA SOP	**86.3**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-15 (015)			**Soil**			**Sampled: 07/16/08 11:12**				
% Solids	NCA SOP	**90.2**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-16 (016)			**Soil**			**Sampled: 07/16/08 11:19**				
% Solids	NCA SOP	**96.1**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-17 (017)			**Soil**			**Sampled: 07/16/08 11:16**				
% Solids	NCA SOP	**94.1**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-18 (018)			**Soil**			**Sampled: 07/16/08 11:30**				
% Solids	NCA SOP	**86.9**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-19 (019)			**Soil**			**Sampled: 07/16/08 11:25**				
% Solids	NCA SOP	**51.1**	-----	0.0100	% by Weight	1x	8071053	07/29/08 16:00	07/29/08 16:00	
PRG0566-20 (020)			**Soil**			**Sampled: 07/16/08 11:27**				
% Solids	NCA SOP	**99.0**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-21 (021)			**Soil**			**Sampled: 07/16/08 11:26**				

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-21 (021)			**Soil**			**Sampled: 07/16/08 11:26**				
% Solids	NCA SOP	**98.7**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-22 (022)			**Soil**			**Sampled: 07/16/08 11:35**				
% Solids	NCA SOP	**93.1**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-23 (023)			**Soil**			**Sampled: 07/16/08 11:41**				
% Solids	NCA SOP	**97.4**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-24 (024)			**Soil**			**Sampled: 07/16/08 11:45**				
% Solids	NCA SOP	**97.3**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-25 (025)			**Soil**			**Sampled: 07/16/08 11:41**				
% Solids	NCA SOP	**52.9**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-26 (026)			**Soil**			**Sampled: 07/16/08 11:48**				
% Solids	NCA SOP	**99.3**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-27 (027)			**Soil**			**Sampled: 07/16/08 11:40**				
% Solids	NCA SOP	**99.1**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-28 (028)			**Soil**			**Sampled: 07/16/08 11:58**				
% Solids	NCA SOP	**93.2**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-29 (029)			**Soil**			**Sampled: 07/16/08 11:55**				
% Solids	NCA SOP	**98.3**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-30 (030)			**Soil**			**Sampled: 07/16/08 11:51**				
% Solids	NCA SOP	**94.7**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-31 (031)			**Soil**			**Sampled: 07/16/08 11:31**				

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRG0566-31 (031)			**Soil**			**Sampled: 07/16/08 11:31**				
% Solids	NCA SOP	**26.8**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-32 (032)			**Soil**			**Sampled: 07/16/08 11:57**				
% Solids	NCA SOP	**40.0**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-33 (033)			**Soil**			**Sampled: 07/16/08 11:55**				
% Solids	NCA SOP	**77.7**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-34 (034)			**Soil**			**Sampled: 07/16/08 12:08**				
% Solids	NCA SOP	**46.3**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-35 (035)			**Soil**			**Sampled: 07/16/08 12:02**				
% Solids	NCA SOP	**79.5**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	
PRG0566-36 (036)			**Soil**			**Sampled: 07/16/08 12:05**				
% Solids	NCA SOP	**42.7**	-----	0.0100	% by Weight	1x	8071052	07/29/08 15:59	07/29/08 15:59	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8070674 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8070674-BLK1)								Extracted: 07/18/08 15:35						
Arsenic	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	07/29/08 00:17	
Barium	"	ND	---	0.510	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.510	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.510	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.510	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.510	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.510	"	"	--	--	--	--	--	--	"	
LCS (8070674-BS1)								Extracted: 07/18/08 15:35						
Arsenic	EPA 6020	9.30	---	0.500	mg/kg wet	1x	--	10.0	93.0%	(80-120)	--	--	07/29/08 00:25	
Barium	"	9.19	---	0.500	"	"	--	"	91.9%	"	--	--	"	
Cadmium	"	8.45	---	0.500	"	"	--	"	84.5%	"	--	--	"	
Chromium	"	9.32	---	0.500	"	"	--	"	93.2%	"	--	--	"	
Lead	"	9.21	---	0.500	"	"	--	"	92.1%	"	--	--	"	
Selenium	"	8.88	---	0.500	"	"	--	"	88.8%	"	--	--	"	
Silver	"	4.62	---	0.500	"	"	--	5.00	92.4%	"	--	--	"	
Duplicate (8070674-DUP1)							QC Source: PRG0508-01		Extracted: 07/18/08 15:35					
Arsenic	EPA 6020	ND	---	0.980	mg/kg wet	1x	ND	--	--	--	NR	(40)	07/29/08 01:01	
Barium	"	5.90	---	0.980	"	"	3.60	--	--	--	48.4%	"	"	R4
Cadmium	"	ND	---	0.980	"	"	ND	--	--	--	NR	"	"	
Chromium	"	ND	---	0.980	"	"	ND	--	--	--	30.2%	"	"	
Lead	"	ND	---	0.980	"	"	ND	--	--	--	NR	"	"	
Selenium	"	ND	---	0.980	"	"	ND	--	--	--	NR	"	"	
Silver	"	ND	---	0.980	"	"	ND	--	--	--		"	"	
Matrix Spike (8070674-MS1)							QC Source: PRG0510-01		Extracted: 07/18/08 15:35					
Arsenic	EPA 6020	12.5	---	0.570	mg/kg dry	1x	3.56	11.4	78.6%	(75-125)	--	--	07/29/08 16:00	
Barium	"	130	---	0.570	"	"	120	"	93.9%	"	--	--	"	
Cadmium	"	9.66	---	0.570	"	"	0.0839	"	84.1%	"	--	--	"	
Chromium	"	31.2	---	0.570	"	"	21.8	"	82.6%	"	--	--	"	
Lead	"	17.9	---	0.570	"	"	7.68	"	89.8%	"	--	--	"	
Selenium	"	9.19	---	0.570	"	"	0.267	"	78.4%	"	--	--	07/30/08 18:36	
Silver	"	5.24	---	0.570	"	"	0.138	5.70	89.6%	"	--	--	07/29/08 16:00	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8070674 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8070674-MS2)					QC Source: PRG0566-01				Extracted: 07/18/08 15:35					
Arsenic	EPA 6020	31.2	---	2.80	mg/kg dry	5x	15.7	11.2	138%	(75-125)	--	--	07/29/08 02:13	M4
Barium	"	107	---	2.80	"	"	77.5	"	263%	"	--	--	"	M4
Cadmium	"	12.5	---	2.80	"	"	1.55	"	98.1%	"	--	--	"	
Chromium	"	1370	---	2.80	"	"	1050	"	2850%	"	--	--	"	M4
Lead	"	477	---	2.80	"	"	288	"	1690%	"	--	--	"	M4
Selenium	"	10.1	---	2.80	"	"	ND	"	90.2%	"	--	--	"	
Silver	"	6.01	---	2.80	"	"	0.572	5.59	97.3%	"	--	--	"	

QC Batch: 8070677 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8070677-BLK1)									Extracted: 07/18/08 19:07					
Arsenic	EPA 6020	ND	---	0.481	mg/kg wet	1x	--	--	--	--	--	--	07/29/08 04:01	
Barium	"	ND	---	0.481	"	"	--	--	--	--	--	--	07/23/08 23:06	
Cadmium	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.481	"	"	--	--	--	--	--	--	07/25/08 00:15	
Lead	"	ND	---	0.481	"	"	--	--	--	--	--	--	07/29/08 04:01	
Selenium	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.481	"	"	--	--	--	--	--	--	07/23/08 23:06	
LCS (8070677-BS1)									Extracted: 07/18/08 19:07					
Arsenic	EPA 6020	9.46	---	0.476	mg/kg wet	1x	--	9.52	99.3%	(80-120)	--	--	07/29/08 04:09	
Barium	"	9.69	---	0.476	"	"	--	"	102%	"	--	--	07/24/08 00:03	
Cadmium	"	9.04	---	0.476	"	"	--	"	94.9%	"	--	--	"	
Chromium	"	10.4	---	0.476	"	"	--	"	110%	"	--	--	07/25/08 00:21	
Lead	"	9.44	---	0.476	"	"	--	"	99.1%	"	--	--	07/29/08 04:09	
Selenium	"	9.07	---	0.476	"	"	--	"	95.2%	"	--	--	"	
Silver	"	5.16	---	0.476	"	"	--	4.76	108%	"	--	--	07/24/08 00:03	
Duplicate (8070677-DUP1)					QC Source: PRG0566-12				Extracted: 07/18/08 19:07					
Arsenic	EPA 6020	39.5	---	2.97	mg/kg dry	5x	48.5	--	--	--	20.5%	(40)	07/29/08 04:23	
Barium	"	302	---	0.593	"	1x	293	--	--	--	3.04%	"	07/23/08 23:32	
Cadmium	"	ND	---	0.593	"	"	1.45	--	--	--	85.5%	"	"	R4
Chromium	"	462	---	0.593	"	"	410	--	--	--	11.9%	"	07/25/08 02:41	
Lead	"	358	---	2.97	"	5x	424	--	--	--	16.8%	"	07/29/08 04:23	
Selenium	"	ND	---	2.97	"	"	ND	--	--	--	NR	"	"	
Silver	"	0.759	---	0.593	"	1x	0.964	--	--	--	23.8%	"	07/23/08 23:32	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8070677 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (8070677-MS1)					QC Source: PRG0566-13			Extracted: 07/18/08 19:07						
Arsenic	EPA 6020	37.8	---	2.51	mg/kg dry	5x	25.1	10.1	126%	(75-125)	--	--	07/29/08 04:45	MHA
Barium	"	162	---	0.503	"	1x	135	"	272%	"	--	--	07/23/08 23:54	MHA
Cadmium	"	10.4	---	0.503	"	"	0.237	"	101%	"	--	--	"	
Chromium	"	1110	---	5.03	"	10x	1210	"	-984%	"	--	--	07/25/08 00:36	MHA
Lead	"	306	---	2.51	"	5x	259	"	468%	"	--	--	07/29/08 04:45	MHA
Selenium	"	10.0	---	2.51	"	"	ND	"	99.8%	"	--	--	"	
Silver	"	6.78	---	0.503	"	1x	0.380	5.03	127%	"	--	--	07/23/08 23:54	M7
Matrix Spike (8070677-MS2)					QC Source: PRG0566-14			Extracted: 07/18/08 19:07						
Arsenic	EPA 6020	83.7	---	2.87	mg/kg dry	5x	61.7	11.5	192%	(75-125)	--	--	07/29/08 04:59	MHA
Barium	"	264	---	0.574	"	1x	231	"	287%	"	--	--	07/24/08 00:21	MHA
Cadmium	"	12.3	---	0.574	"	"	0.329	"	104%	"	--	--	"	
Chromium	"	988	---	5.74	"	10x	832	"	1360%	"	--	--	07/25/08 00:48	MHA
Lead	"	554	---	2.87	"	5x	213	"	2970%	"	--	--	07/29/08 04:59	MHA
Selenium	"	10.1	---	2.87	"	"	ND	"	88.4%	"	--	--	"	
Silver	"	7.33	---	0.574	"	1x	0.852	5.74	113%	"	--	--	07/24/08 00:21	

QC Batch: 8070746 **Other wet Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8070746-BLK1)								Extracted: 07/22/08 08:42						
Arsenic	EPA 6020	ND	---	0.505	mg/kg	1x	--	--	--	--	--	--	07/23/08 00:33	
Barium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
LCS (8070746-BS1)								Extracted: 07/22/08 08:42						
Arsenic	EPA 6020	10.4	---	0.526	mg/kg	1x	--	10.5	98.6%	(80-120)	--	--	07/23/08 00:39	
Barium	"	9.45	---	0.526	"	"	--	"	89.8%	"	--	--	"	
Cadmium	"	8.98	---	0.526	"	"	--	"	85.3%	"	--	--	"	
Chromium	"	10.6	---	0.526	"	"	--	"	100%	"	--	--	"	
Lead	"	10.8	---	0.526	"	"	--	"	103%	"	--	--	"	
Selenium	"	10.1	---	0.526	"	"	--	"	96.2%	"	--	--	"	
Silver	"	4.73	---	0.526	"	"	--	5.26	89.8%	"	--	--	"	

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Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8070746 **Other wet Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8070746-DUP1)				**QC Source: PRG0566-31**				**Extracted: 07/22/08 08:42**						
Arsenic	EPA 6020	ND	---	0.505	mg/kg	1x	ND	--	--	--	9.57%	(40)	07/23/08 00:54	
Barium	"	8.61	---	0.505	"	"	7.79	--	--	--	9.96%	"	"	
Cadmium	"	ND	---	0.505	"	"	ND	--	--	--	NR	"	"	
Chromium	"	3.60	---	0.505	"	"	3.47	--	--	--	3.55%	"	"	
Lead	"	3.48	---	0.505	"	"	2.85	--	--	--	20.1%	"	"	
Selenium	"	ND	---	0.505	"	"	ND	--	--	--	18.3%	"	"	
Silver	"	ND	---	0.505	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (8070746-MS1)				**QC Source: PRG0566-31**				**Extracted: 07/22/08 08:42**						
Arsenic	EPA 6020	9.84	---	0.495	mg/kg	1x	0.216	9.90	97.2%	(75-125)	--	--	07/23/08 01:16	
Barium	"	17.4	---	0.495	"	"	7.79	"	97.4%	"	--	--	"	
Cadmium	"	8.50	---	0.495	"	"	ND	"	85.8%	"	--	--	"	
Chromium	"	13.5	---	0.495	"	"	3.47	"	101%	"	--	--	"	
Lead	"	12.2	---	0.495	"	"	2.85	"	94.7%	"	--	--	"	
Selenium	"	9.05	---	0.495	"	"	0.0294	"	91.1%	"	--	--	"	
Silver	"	4.26	---	0.495	"	"	ND	4.95	86.1%	"	--	--	"	
Matrix Spike (8070746-MS2)				**QC Source: PRG0593-02**				**Extracted: 07/22/08 08:42**						
Arsenic	EPA 6020	8.62	---	0.431	mg/kg	1x	0.0513	8.62	99.4%	(75-125)	--	--	07/23/08 01:32	
Barium	"	8.16	---	0.431	"	"	0.692	"	86.6%	"	--	--	"	
Cadmium	"	7.82	---	0.431	"	"	0.560	"	84.2%	"	--	--	"	
Chromium	"	9.72	---	0.431	"	"	1.30	"	97.6%	"	--	--	"	
Lead	"	9.40	---	0.431	"	"	0.782	"	99.9%	"	--	--	"	
Selenium	"	8.19	---	0.431	"	"	ND	"	95.0%	"	--	--	"	
Silver	"	3.81	---	0.431	"	"	0.0342	4.31	87.7%	"	--	--	"	

TestAmerica Portland

Darrell Auvil, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Total Mercury per EPA Method 7471A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8070702 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8070702-BLK1)									Extracted: 07/21/08 10:13					
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	07/21/08 13:58	
LCS (8070702-BS1)									Extracted: 07/21/08 10:13					
Mercury	EPA 7471A	1.03	---	0.100	mg/kg wet	1x	--	1.00	103%	(80-120)	--	--	07/21/08 14:01	
LCS Dup (8070702-BSD1)									Extracted: 07/21/08 10:13					
Mercury	EPA 7471A	0.989	---	0.100	mg/kg wet	1x	--	1.00	98.9%	(80-120)	3.82%	(20)	07/21/08 14:04	
Duplicate (8070702-DUP1)					QC Source: PRG0566-01				Extracted: 07/21/08 10:13					
Mercury	EPA 7471A	ND	---	0.0865	mg/kg dry	1x	ND	--	--	--	NR	(40)	07/21/08 14:08	
Matrix Spike (8070702-MS1)					QC Source: PRG0566-01				Extracted: 07/21/08 10:13					
Mercury	EPA 7471A	0.868	---	0.0873	mg/kg dry	1x	ND	0.873	99.4%	(75-125)	--	--	07/21/08 14:10	
Matrix Spike Dup (8070702-MSD1)					QC Source: PRG0566-01				Extracted: 07/21/08 10:13					
Mercury	EPA 7471A	0.843	---	0.0836	mg/kg dry	1x	ND	0.836	101%	(75-125)	2.89%	(40)	07/21/08 14:14	

QC Batch: 8070703 **Soil Preparation Method: EPA 7471A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8070703-BLK1)									Extracted: 07/21/08 10:17					
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	07/21/08 15:20	
LCS (8070703-BS1)									Extracted: 07/21/08 10:17					
Mercury	EPA 7471A	1.04	---	0.100	mg/kg wet	1x	--	1.00	104%	(80-120)	--	--	07/21/08 15:22	
LCS Dup (8070703-BSD1)									Extracted: 07/21/08 10:17					
Mercury	EPA 7471A	1.04	---	0.100	mg/kg wet	1x	--	1.00	104%	(80-120)	0.297%	(20)	07/21/08 15:27	
Duplicate (8070703-DUP1)					QC Source: PRG0566-19				Extracted: 07/21/08 10:17					
Mercury	EPA 7471A	ND	---	0.151	mg/kg dry	1x	ND	--	--	--		(40)	07/21/08 15:30	
Matrix Spike (8070703-MS1)					QC Source: PRG0566-19				Extracted: 07/21/08 10:17					
Mercury	EPA 7471A	1.55	---	0.153	mg/kg dry	1x	ND	1.53	101%	(75-125)	--	--	07/21/08 15:32	
Matrix Spike Dup (8070703-MSD1)					QC Source: PRG0566-19				Extracted: 07/21/08 10:17					
Mercury	EPA 7471A	1.38	---	0.139	mg/kg dry	1x	ND	1.39	99.5%	(75-125)	11.6%	(40)	07/21/08 15:36	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8071025 **Other dry Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8071025-DUP1)					**QC Source: PRG0566-01**				**Extracted: 07/29/08 10:16**					
% Solids	NCA SOP	92.9	---	0.0100	% by Weight	1x	91.2	--	--	--	1.85%	(20)	07/29/08 10:16	

QC Batch: 8071052 **Other dry Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8071052-DUP1)					**QC Source: PRG0566-20**				**Extracted: 07/29/08 15:59**					
% Solids	NCA SOP	99.7	---	0.0100	% by Weight	1x	99.0	--	--	--	0.705%	(20)	07/29/08 15:59	

QC Batch: 8071053 **Other dry Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8071053-DUP1)					**QC Source: PRG0566-12**				**Extracted: 07/29/08 16:00**					
% Solids	NCA SOP	84.3	---	0.0100	% by Weight	1x	84.3	--	--	--	0.00%	(20)	07/29/08 16:00	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	07/31/08 14:27

Notes and Definitions

Report Specific Notes:

M4	-	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
RL1	-	Reporting limit raised due to sample matrix effects.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Darrell Auvil, Project Manager

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PRG0566

HAHN AND ASSOCIATES, INC.
Environmental Management
434 NW Sixth Avenue Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Test America

Lab Project No:

CHAIN OF CUSTODY

Chain of Custody No: 1

Project Manager: ~~Gary Wolvates~~ D. PARDUE
Project No: ~~7478~~ 7518
Project Name: ~~DURINV~~ CCT RPB
Collected by: ~~DSPUSK~~ DSP JCK

Liquid with Sediment Sample
Test Filtrate ____ Test Sediment ____ Test Both ____
Multi-Phase Sample
Test One (which) ____ Test Separately ____ Shake ____

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N)
Provide Preliminary Fax Results

Sample Number Prefix: 7518-080716-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	TOTAL RCRA 8 METALS	TCLP RCRA 8 METALS	RUSH	Remarks
	001	07-16-08	1033		X			1	X			
	002		1031						X			
	003		1038						X			
	004		1045						X			
	005		1037						X			
	006		1054						X			
	007		1049						X			
	008		1053						X			
	009		1049						X			
	010		1058						X			
	011		1101						X			
	012		1108						X			
	013		1110						X			
	014		1116						X			
	015		1112						X			
	016		1119						X			
	017		1116						X			
	018		1130						X			
	019		1125						X			
	020		1127						X			
	021		1126						X			
	022		1135						X			
	023		1141						X			
	024		1145						X			
	025		1141						X			
	026		1148						X			
	027		1140						X			
	028		1158						X			
	029		1155						X			
	030		1151						X			
	031		1131						X			
	032		1157						X			
	033		1155						X			

Relinquished by	Company	Date	Time	Received by	Company
D. Pardue	HAHN & ASSOC	7-16-08	11:15	Bob F	TAP
[illegible]	TAP	7/17/08	11:00	[illegible]	TA-P
Relinquished by	Company	Date	Time	Received by	Company

5.4°C

PRG0566

HAHN AND ASSOCIATES, INC.
Environmental Management
434 NW Sixth Avenue Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory
Lab Project No

CHAIN OF CUSTODY
Chain of Custody No

Project Manager: ~~Gary Walvatne~~ D. Pardue
Project No: ~~7476~~ 7518
Project Name: ~~BVRINV~~ CCT RPB
Collected by: DSP/JCK

Liquid with Sediment Sample
Test Filtrate ____ Test Sediment ____ Test Both ____
Multi-Phase Sample
Test One (which) ____ Test Separately ____ Shake ____

Samples Received at 4C (Y or N) ____
Appropriate Containers Used (Y or N) ____
Provide Verbal Results (Y or N) ____
Provide Preliminary Fax Results ____

Sample Number Prefix: 7518-080716-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analyses to be Performed: TOTAL RCRA 8 Metals	Analyses to be Performed: TCLP RCRA 8 METALS	RUSH	Remarks
	034	07-16-08	1208	A Horizon	X			1	X			
	035	↓	1202		↓			↓	X			
	036	↓	1205		↓			↓	X			

Relinquished by	Company	Date	Time	Received by	Company
D Pardue	HAHN & ASSOC	07-17-08	11:15	Bob Fan	TAP
Bob Fan	TAP	7/17/08	11:40	[illegible]	TA-P

5.4°C

TestAmerica Sample Receipt Checklist

Received by: (Section A)
Date: 7-17-08
Time: 11:40A
Initials: K

Unpacked by: (Section B)
Date: 7-17-08
Initials: K

Logged-in by:
Date: 7/17/08
Initials: JI

Work Order No. PRG0566
Client: Hahn + Assoc.
Project: CCT RPB

***ESI Clients (see Section C)

Temperature out of range
___Not enough Ice
___No Ice
___Ice Melted
___W/in 4 Hours
___Other:

Cooler Temperature (IR): 5.4 °C plastic (glass) NA (oil/air OR ESI client) Temperature Blank: _____ °C DIGI #1 #2

A

Custody Seals: (#___)

Signature: Y N Dated:_____
X None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
X Gel/ Blue Ice
___Loose Ice
___None

Packing Material:
___Bubble Bags
___Styrofoam Cubbies
___Peanuts
X None (___Other:_____)

Received from:
X TA Courier
___Senvoy
___UPS
___Fed Ex
___Client
___TDP
___USPS
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:

Intact?	(Y)	N	
# Containers Match COC?	(Y)	N	none given
IDs Match COC?	Y	(N)	

For Analyses Requested:

Cyanide checked?	Y	N	(NA)
Correct Type & Preservation?	(Y)	N	
Adequate Volume?	(Y)	N	
Within Hold Time?	(Y)	N	

Volatiles/ Oil Quality:

VOAs/ Syringes free of Headspace?	Y	N	(NA)
TB on COC? not provided	Y	N	(NA)

Metals:

HNO3 Preserved?	Y	N	(NA)
Dissolved Metals Filtered?	Y	N	(NA)

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided DIGI #1 #2

All preserved bottles checked	Y	N	NA	(voas/soils/all unp.)
All preserved accordingly?	Y	N (see NOD)	NA	(voas/soils/all unp.)

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments: _____

PM Reviewed:

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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ORELAP#: OR100021

August 15, 2008

Dave Pardue
Hahn and Associates, Inc.
434 NW Sixth Ave., Suite 203
Portland, OR 97209

RE: CCT RPD

Enclosed are the results of analyses for samples received by the laboratory on 08/06/08 11:18. The following list is a summary of the Work Orders contained in this report, generated on 08/15/08 15:08.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PRH0119	CCT RPD	7518

TestAmerica Portland

Darrell Auvil, Project Manager

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
007	PRH0119-01	Soil	07/16/08 10:49	08/06/08 11:18
029	PRH0119-02	Soil	07/16/08 11:55	08/06/08 11:18

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

TCLP Metals per EPA 1311/6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRH0119-01 (007)			**Soil**			**Sampled: 07/16/08 10:49**				
Arsenic	1311/6010B	ND	-----	0.0500	mg/l	1x	8080384	08/13/08 08:14	08/13/08 15:03	
Barium	"	**0.892**	-----	0.0100	"	"	"	"	"	
Cadmium	"	ND	-----	0.0100	"	"	"	"	"	
Chromium	"	ND	-----	0.0100	"	"	"	"	"	
Lead	"	**0.195**	-----	0.0500	"	"	"	"	"	
Selenium	"	ND	-----	0.0500	"	"	"	"	"	
Silver	"	ND	-----	0.0200	"	"	"	"	"	
PRH0119-02 (029)			**Soil**			**Sampled: 07/16/08 11:55**				
Arsenic	1311/6010B	ND	-----	0.0500	mg/l	1x	8080384	08/13/08 08:14	08/13/08 15:15	
Barium	"	**0.445**	-----	0.0100	"	"	"	"	"	
Cadmium	"	ND	-----	0.0100	"	"	"	"	"	
Chromium	"	**0.0260**	-----	0.0100	"	"	"	"	"	
Lead	"	ND	-----	0.0500	"	"	"	"	"	
Selenium	"	ND	-----	0.0500	"	"	"	"	"	
Silver	"	ND	-----	0.0200	"	"	"	"	"	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

TCLP Mercury per EPA Methods 1311/7470A

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRH0119-01 (007)				**Soil**			**Sampled: 07/16/08 10:49**			
Mercury	1311/7470A	ND	-----	0.000200	mg/l	1x	8080400	08/13/08 09:54	08/13/08 16:31	
PRH0119-02 (029)				**Soil**			**Sampled: 07/16/08 11:55**			
Mercury	1311/7470A	ND	-----	0.000200	mg/l	1x	8080400	08/13/08 09:54	08/13/08 16:41	

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Darrell Auvil, Project Manager

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

TCLP Extraction Only

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRH0119-01 (007)			**Soil**			**Sampled: 07/16/08 10:49**				
Extraction	EPA 1311	ND	-----	1.00	N/A	1x	8080321	08/11/08 17:08	08/12/08 13:42	
PRH0119-02 (029)			**Soil**			**Sampled: 07/16/08 11:55**				
Extraction	EPA 1311	ND	-----	1.00	N/A	1x	8080321	08/11/08 17:08	08/12/08 13:42	

TestAmerica Portland

Darrell Auvil, Project Manager

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

TCLP Metals per EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8080384 **Soil Preparation Method: EPA 1311/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8080384-BLK1)								Extracted: 08/13/08 08:14						
Arsenic	1311/6010B	ND	---	0.0500	mg/l	1x	--	--	--	--	--	--	08/13/08 14:30	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
LCS (8080384-BS1)								Extracted: 08/13/08 08:14						
Arsenic	1311/6010B	1.08	---	0.0500	mg/l	1x	--	1.00	108%	(85-115)	--	--	08/13/08 14:37	
Barium	"	5.11	---	0.0100	"	"	--	5.00	102%	"	--	--	"	
Cadmium	"	0.522	---	0.0100	"	"	--	0.500	104%	"	--	--	"	
Chromium	"	1.03	---	0.0100	"	"	--	1.00	103%	"	--	--	"	
Lead	"	1.01	---	0.0500	"	"	--	"	101%	"	--	--	"	
Selenium	"	1.15	---	0.0500	"	"	--	"	115%	"	--	--	"	
Silver	"	0.466	---	0.0200	"	"	--	0.500	93.1%	"	--	--	"	
Duplicate (8080384-DUP1)				QC Source: PRH0111-01				Extracted: 08/13/08 08:14						
Arsenic	1311/6010B	ND	---	0.0500	mg/l	1x	ND	--	--	--		(20)	08/13/08 14:56	
Barium	"	0.264	---	0.0100	"	"	0.263	--	--	--	0.216%	"	"	
Cadmium	"	ND	---	0.0100	"	"	ND	--	--	--	0.402%	"	"	
Chromium	"	0.0208	---	0.0100	"	"	0.0204	--	--	--	2.02%	"	"	
Lead	"	ND	---	0.0500	"	"	ND	--	--	--	12.3%	"	"	
Selenium	"	ND	---	0.0500	"	"	ND	--	--	--	4.85%	"	"	
Silver	"	ND	---	0.0200	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (8080384-MS1)				QC Source: PRH0119-01				Extracted: 08/13/08 08:14						
Arsenic	1311/6010B	1.11	---	0.0500	mg/l	1x	0.0352	1.00	107%	(75-125)	--	--	08/13/08 15:09	
Barium	"	5.97	---	0.0100	"	"	0.892	5.00	101%	"	--	--	"	
Cadmium	"	0.516	---	0.0100	"	"	0.00681	0.500	102%	"	--	--	"	
Chromium	"	1.00	---	0.0100	"	"	0.00155	1.00	99.9%	"	--	--	"	
Lead	"	1.19	---	0.0500	"	"	0.195	"	99.9%	"	--	--	"	
Selenium	"	1.12	---	0.0500	"	"	ND	"	112%	"	--	--	"	
Silver	"	0.460	---	0.0200	"	"	ND	0.500	92.0%	"	--	--	"	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

TCLP Mercury per EPA Methods 1311/7470A - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8080400 **Soil Preparation Method: EPA 1311/7470A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8080400-BLK1)								**Extracted: 08/13/08 09:54**						
Mercury	1311/7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	08/13/08 16:04	
LCS (8080400-BS1)								**Extracted: 08/13/08 09:54**						
Mercury	1311/7470A	0.00502	---	0.000200	mg/l	1x	--	0.00500	100%	(85-115)	--	--	08/13/08 16:06	
LCS Dup (8080400-BSD1)								**Extracted: 08/13/08 09:54**						
Mercury	1311/7470A	0.00523	---	0.000200	mg/l	1x	--	0.00500	105%	(85-115)	4.08%	(20)	08/13/08 16:11	
Duplicate (8080400-DUP1)				**QC Source: PRH0072-01**				**Extracted: 08/13/08 09:54**						
Mercury	1311/7470A	ND	---	0.000200	mg/l	1x	ND	--	--	--	NR	(20)	08/13/08 16:21	
Duplicate (8080400-DUP2)				**QC Source: PRH0144-01**				**Extracted: 08/13/08 09:54**						
Mercury	1311/7470A	0.00119	---	0.000200	mg/l	1x	0.00122	--	--	--	1.67%	(20)	08/13/08 16:23	
Matrix Spike (8080400-MS1)				**QC Source: PRH0072-01**				**Extracted: 08/13/08 09:54**						
Mercury	1311/7470A	0.00476	---	0.000200	mg/l	1x	ND	0.00500	95.2%	(75-125)	--	--	08/13/08 16:14	
Matrix Spike (8080400-MS2)				**QC Source: PRH0144-01**				**Extracted: 08/13/08 09:54**						
Mercury	1311/7470A	0.00636	---	0.000200	mg/l	1x	0.00122	0.00500	103%	(75-125)	--	--	08/13/08 16:18	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

TCLP Extraction Only - Laboratory Quality Control Results

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QC Batch: 8080321 **Soil Preparation Method: EPA 1311**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8080321-BLK1)								**Extracted: 08/11/08 17:08**						
Extraction	EPA 1311	ND	---	1.00	N/A	1x	--	--	--	--	--	--	08/12/08 13:42	

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ORELAP#: OR100021

November 06, 2008

Dave Pardue
Hahn and Associates, Inc.
434 NW Sixth Ave., Suite 203
Portland, OR 97209

RE: CCT RPD

Enclosed are the results of analyses for samples received by the laboratory on 10/20/08 14:15. The following list is a summary of the Work Orders contained in this report, generated on 11/06/08 16:11.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PRJ0682	CCT RPD	7518

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
001B	PRJ0682-01	Soil	10/17/08 10:25	10/20/08 14:15
002A	PRJ0682-03	Soil	10/17/08 15:38	10/20/08 14:15
002B	PRJ0682-04	Soil	10/17/08 15:41	10/20/08 14:15
007A	PRJ0682-06	Soil	10/17/08 15:50	10/20/08 14:15
007B	PRJ0682-07	Soil	10/17/08 15:55	10/20/08 14:15
010B	PRJ0682-09	Soil	10/17/08 15:40	10/20/08 14:15
013B	PRJ0682-11	Soil	10/17/08 15:25	10/20/08 14:15
014A	PRJ0682-13	Soil	10/17/08 14:55	10/20/08 14:15
014B	PRJ0682-14	Soil	10/17/08 15:00	10/20/08 14:15
021B	PRJ0682-16	Soil	10/17/08 14:41	10/20/08 14:15
026B	PRJ0682-18	Soil	10/17/08 14:23	10/20/08 14:15
027A	PRJ0682-20	Soil	10/17/08 14:05	10/20/08 14:15
027B	PRJ0682-21	Soil	10/17/08 14:10	10/20/08 14:15
029A	PRJ0682-23	Soil	10/17/08 14:15	10/20/08 14:15
029B	PRJ0682-24	Soil	10/17/08 14:18	10/20/08 14:15
037A	PRJ0682-26	Soil	10/17/08 09:41	10/20/08 14:15
038A	PRJ0682-28	Soil	10/17/08 09:46	10/20/08 14:15
039A	PRJ0682-30	Soil	10/17/08 13:12	10/20/08 14:15
040A	PRJ0682-32	Soil	10/17/08 13:17	10/20/08 14:15
041A	PRJ0682-34	Soil	10/17/08 13:41	10/20/08 14:15
042A	PRJ0682-36	Soil	10/17/08 13:40	10/20/08 14:15
043A	PRJ0682-38	Soil	10/17/08 13:58	10/20/08 14:15
044A	PRJ0682-40	Soil	10/17/08 14:06	10/20/08 14:15
045A	PRJ0682-42	Soil	10/17/08 11:27	10/20/08 14:15
046A	PRJ0682-44	Soil	10/17/08 11:22	10/20/08 14:15
047A	PRJ0682-46	Soil	10/17/08 11:12	10/20/08 14:15
048A	PRJ0682-48	Soil	10/17/08 11:02	10/20/08 14:15
049A	PRJ0682-50	Soil	10/17/08 10:51	10/20/08 14:15
050A	PRJ0682-52	Soil	10/17/08 10:43	10/20/08 14:15
051A	PRJ0682-54	Soil	10/17/08 10:22	10/20/08 14:15
052A	PRJ0682-56	Soil	10/17/08 10:10	10/20/08 14:15
053A	PRJ0682-58	Soil	10/17/08 09:55	10/20/08 14:15
054A	PRJ0682-60	Soil	10/17/08 15:50	10/20/08 14:15
055A	PRJ0682-62	Soil	10/17/08 10:08	10/20/08 14:15
056A	PRJ0682-64	Soil	10/17/08 10:27	10/20/08 14:15

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
057A	PRJ0682-66	Soil	10/17/08 10:42	10/20/08 14:15
058A	PRJ0682-68	Soil	10/17/08 11:52	10/20/08 14:15
059A	PRJ0682-70	Soil	10/17/08 11:03	10/20/08 14:15
060A	PRJ0682-72	Soil	10/17/08 11:11	10/20/08 14:15
016B	PRJ0682-74	Soil	10/17/08 14:52	10/20/08 14:15

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Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-01 (001B)			**Soil**			**Sampled: 10/17/08 10:25**				
Chromium	EPA 6010B	**141**	-----	1.43	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 18:47	
Lead	"	**47.1**	-----	9.52	"	"	"	"	11/05/08 20:13	
PRJ0682-04 (002B)			**Soil**			**Sampled: 10/17/08 15:41**				
Chromium	EPA 6010B	**64.1**	-----	1.52	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:07	
Lead	"	**216**	-----	10.1	"	"	"	"	11/05/08 20:19	
PRJ0682-07 (007B)			**Soil**			**Sampled: 10/17/08 15:55**				
Arsenic	EPA 6010B	ND	-----	24.3	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:26	
Cadmium	"	**5.89**	-----	2.91	"	"	"	"	"	
Chromium	"	**12.0**	-----	1.46	"	"	"	"	"	
Lead	"	**18.5**	-----	9.71	"	"	"	"	11/05/08 20:26	
PRJ0682-09 (010B)			**Soil**			**Sampled: 10/17/08 15:40**				
Chromium	EPA 6010B	**151**	-----	1.43	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:33	
Lead	"	**1280**	-----	95.2	"	10x	"	"	11/05/08 20:32	
PRJ0682-11 (013B)			**Soil**			**Sampled: 10/17/08 15:25**				
Chromium	EPA 6010B	**31.9**	-----	1.46	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:39	
Lead	"	ND	-----	9.71	"	"	"	"	11/05/08 20:38	
PRJ0682-14 (014B)			**Soil**			**Sampled: 10/17/08 15:00**				
Arsenic	EPA 6010B	ND	-----	25.0	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:46	
Chromium	"	**117**	-----	1.50	"	"	"	"	"	
Lead	"	**97.6**	-----	10.0	"	"	"	"	11/05/08 20:45	
PRJ0682-16 (021B)			**Soil**			**Sampled: 10/17/08 14:41**				
Chromium	EPA 6010B	**70.7**	-----	1.49	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:52	
Lead	"	**2160**	-----	99.0	"	10x	"	"	11/05/08 20:51	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-18 (026B)			**Soil**			**Sampled: 10/17/08 14:23**				
Chromium	EPA 6010B	**384**	-----	1.50	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:58	
Lead	"	**597**	-----	100	"	10x	"	"	11/05/08 20:58	
PRJ0682-21 (027B)			**Soil**			**Sampled: 10/17/08 14:10**				
Chromium	EPA 6010B	**81.6**	-----	1.44	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:05	
Lead	"	**314**	-----	96.2	"	10x	"	"	11/05/08 21:04	
PRJ0682-24 (029B)			**Soil**			**Sampled: 10/17/08 14:18**				
Chromium	EPA 6010B	**44.3**	-----	1.47	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:18	
Lead	"	**132**	-----	9.80	"	"	"	"	11/05/08 21:11	
PRJ0682-26 (037A)			**Soil**			**Sampled: 10/17/08 09:41**				
Chromium	EPA 6010B	**32.9**	-----	1.49	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:24	
Lead	"	ND	-----	9.90	"	"	"	"	11/05/08 21:30	
PRJ0682-28 (038A)			**Soil**			**Sampled: 10/17/08 09:46**				
Chromium	EPA 6010B	**30.5**	-----	1.43	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:44	
Lead	"	**10.6**	-----	9.52	"	"	"	"	11/05/08 21:37	
PRJ0682-30 (039A)			**Soil**			**Sampled: 10/17/08 13:12**				
Chromium	EPA 6010B	**75.0**	-----	1.50	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:50	
Lead	"	**363**	-----	100	"	10x	"	"	11/05/08 21:43	
PRJ0682-32 (040A)			**Soil**			**Sampled: 10/17/08 13:17**				
Chromium	EPA 6010B	**83.1**	-----	1.46	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:57	
Lead	"	**110**	-----	9.71	"	"	"	"	11/05/08 21:50	
PRJ0682-34 (041A)			**Soil**			**Sampled: 10/17/08 13:41**				
Chromium	EPA 6010B	**35.7**	-----	1.50	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 21:03	
Lead	"	ND	-----	10.0	"	"	"	"	11/05/08 21:56	

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Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-36 (042A)			**Soil**			**Sampled: 10/17/08 13:40**				
Chromium	EPA 6010B	**48.6**	-----	1.49	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 21:10	
Lead	"	ND	-----	9.90	"	"	"	"	11/05/08 22:03	
PRJ0682-38 (043A)			**Soil**			**Sampled: 10/17/08 13:58**				
Chromium	EPA 6010B	**72.5**	-----	1.46	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 21:16	
Lead	"	**61.4**	-----	9.71	"	"	"	"	11/05/08 22:09	
PRJ0682-40 (044A)			**Soil**			**Sampled: 10/17/08 14:06**				
Chromium	EPA 6010B	**65.0**	-----	1.85	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:22	
Lead	"	**24.9**	-----	12.3	"	"	"	"	"	
PRJ0682-42 (045A)			**Soil**			**Sampled: 10/17/08 11:27**				
Chromium	EPA 6010B	**136**	-----	2.66	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:41	
Lead	"	**434**	-----	17.7	"	"	"	"	"	
PRJ0682-44 (046A)			**Soil**			**Sampled: 10/17/08 11:22**				
Chromium	EPA 6010B	**109**	-----	2.72	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:48	
Lead	"	**39.0**	-----	18.1	"	"	"	"	"	
PRJ0682-46 (047A)			**Soil**			**Sampled: 10/17/08 11:12**				
Chromium	EPA 6010B	**266**	-----	2.12	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:54	
Lead	"	**53.9**	-----	14.2	"	"	"	"	"	
PRJ0682-48 (048A)			**Soil**			**Sampled: 10/17/08 11:02**				
Chromium	EPA 6010B	**43.1**	-----	3.09	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:00	
Lead	"	ND	-----	20.6	"	"	"	"	"	
PRJ0682-50 (049A)			**Soil**			**Sampled: 10/17/08 10:51**				
Chromium	EPA 6010B	**51.1**	-----	1.78	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:07	
Lead	"	**21.4**	-----	11.8	"	"	"	"	"	

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Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-52 (050A)			**Soil**			**Sampled: 10/17/08 10:43**				
Chromium	EPA 6010B	**75.0**	-----	1.85	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:13	
Lead	"	**12.5**	-----	12.3	"	"	"	"	"	
PRJ0682-54 (051A)			**Soil**			**Sampled: 10/17/08 10:22**				
Chromium	EPA 6010B	**59.0**	-----	1.93	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:20	
Lead	"	ND	-----	12.9	"	"	"	"	"	
PRJ0682-56 (052A)			**Soil**			**Sampled: 10/17/08 10:10**				
Chromium	EPA 6010B	**929**	-----	3.01	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:39	
Lead	"	**500**	-----	20.0	"	"	"	"	"	
PRJ0682-58 (053A)			**Soil**			**Sampled: 10/17/08 09:55**				
Chromium	EPA 6010B	**40.6**	-----	1.85	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:45	
Lead	"	**12.8**	-----	12.3	"	"	"	"	"	
PRJ0682-60 (054A)			**Soil**			**Sampled: 10/17/08 15:50**				
Chromium	EPA 6010B	**9.76**	-----	1.92	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:52	
Lead	"	**33.7**	-----	12.8	"	"	"	"	"	
PRJ0682-62 (055A)			**Soil**			**Sampled: 10/17/08 10:08**				
Chromium	EPA 6010B	**49.6**	-----	1.86	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:05	
Lead	"	ND	-----	12.4	"	"	"	"	"	
PRJ0682-64 (056A)			**Soil**			**Sampled: 10/17/08 10:27**				
Chromium	EPA 6010B	**79.4**	-----	1.91	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:11	
Lead	"	**23.9**	-----	12.7	"	"	"	"	"	
PRJ0682-66 (057A)			**Soil**			**Sampled: 10/17/08 10:42**				
Chromium	EPA 6010B	**95.6**	-----	2.06	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:18	
Lead	"	**31.2**	-----	13.8	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-68 (058A)			**Soil**			**Sampled: 10/17/08 11:52**				
Chromium	EPA 6010B	**165**	-----	2.02	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:24	
Lead	"	**44.1**	-----	13.5	"	"	"	"	"	
PRJ0682-70 (059A)			**Soil**			**Sampled: 10/17/08 11:03**				
Chromium	EPA 6010B	**539**	-----	3.31	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:31	
Lead	"	**127**	-----	22.1	"	"	"	"	"	
PRJ0682-72 (060A)			**Soil**			**Sampled: 10/17/08 11:11**				
Chromium	EPA 6010B	**59.2**	-----	1.90	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:37	
Lead	"	ND	-----	12.7	"	"	"	"	"	
PRJ0682-74 (016B)			**Soil**			**Sampled: 10/17/08 14:52**				
Arsenic	EPA 6010B	ND	-----	32.1	mg/kg dry	1x	8101101	10/28/08 14:07	11/04/08 12:27	
Chromium	"	**348**	-----	1.92	"	"	"	"	"	
Lead	"	**101**	-----	12.8	"	"	"	"	11/05/08 13:39	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

SPLP Metals per EPA 1312/6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-03 (002A)			**Soil**			**Sampled: 10/17/08 15:38**				
Arsenic	1312/6020	ND	-----	0.0100	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:11	
Cadmium	"	ND	-----	0.00500	"	"	"	"	"	
Chromium	"	ND	-----	0.0200	"	"	"	"	"	
Lead	"	**0.0269**	-----	0.0100	"	"	"	"	"	
PRJ0682-06 (007A)			**Soil**			**Sampled: 10/17/08 15:50**				
Arsenic	1312/6020	ND	-----	0.0100	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:22	
Cadmium	"	ND	-----	0.00500	"	"	"	"	"	
Chromium	"	ND	-----	0.0200	"	"	"	"	"	
Lead	"	**0.0187**	-----	0.0100	"	"	"	"	"	
PRJ0682-13 (014A)			**Soil**			**Sampled: 10/17/08 14:55**				
Arsenic	1312/6020	ND	-----	0.0100	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:45	
Cadmium	"	ND	-----	0.00500	"	"	"	"	"	
Chromium	"	ND	-----	0.0200	"	"	"	"	"	
Lead	"	**0.0105**	-----	0.0100	"	"	"	"	"	
PRJ0682-20 (027A)			**Soil**			**Sampled: 10/17/08 14:05**				
Chromium	1312/6020	ND	-----	0.0200	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:51	
Lead	"	**0.0523**	-----	0.0100	"	"	"	"	"	
PRJ0682-23 (029A)			**Soil**			**Sampled: 10/17/08 14:15**				
Chromium	1312/6020	ND	-----	0.0200	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:57	
Lead	"	**0.0508**	-----	0.0100	"	"	"	"	"	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-04 (002B)			**Soil**			**Sampled: 10/17/08 15:41**				
% Solids	NCA SOP	**73.9**	-----	0.0100	% by Weight	1x	8100997	10/25/08 11:21	10/25/08 11:21	
PRJ0682-07 (007B)			**Soil**			**Sampled: 10/17/08 15:55**				
% Solids	NCA SOP	**79.4**	-----	0.0100	% by Weight	1x	8100997	10/25/08 11:21	10/25/08 11:21	
PRJ0682-09 (010B)			**Soil**			**Sampled: 10/17/08 15:40**				
% Solids	NCA SOP	**93.7**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-11 (013B)			**Soil**			**Sampled: 10/17/08 15:25**				
% Solids	NCA SOP	**68.5**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-14 (014B)			**Soil**			**Sampled: 10/17/08 15:00**				
% Solids	NCA SOP	**77.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-16 (021B)			**Soil**			**Sampled: 10/17/08 14:41**				
% Solids	NCA SOP	**87.7**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-18 (026B)			**Soil**			**Sampled: 10/17/08 14:23**				
% Solids	NCA SOP	**83.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-21 (027B)			**Soil**			**Sampled: 10/17/08 14:10**				
% Solids	NCA SOP	**85.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-24 (029B)			**Soil**			**Sampled: 10/17/08 14:18**				
% Solids	NCA SOP	**71.9**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-26 (037A)			**Soil**			**Sampled: 10/17/08 09:41**				
% Solids	NCA SOP	**84.7**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-28 (038A)			**Soil**			**Sampled: 10/17/08 09:46**				

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-28 (038A)			**Soil**			**Sampled: 10/17/08 09:46**				
% Solids	NCA SOP	**80.8**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-30 (039A)			**Soil**			**Sampled: 10/17/08 13:12**				
% Solids	NCA SOP	**51.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-32 (040A)			**Soil**			**Sampled: 10/17/08 13:17**				
% Solids	NCA SOP	**71.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-34 (041A)			**Soil**			**Sampled: 10/17/08 13:41**				
% Solids	NCA SOP	**79.5**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-36 (042A)			**Soil**			**Sampled: 10/17/08 13:40**				
% Solids	NCA SOP	**82.4**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-38 (043A)			**Soil**			**Sampled: 10/17/08 13:58**				
% Solids	NCA SOP	**74.0**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-40 (044A)			**Soil**			**Sampled: 10/17/08 14:06**				
% Solids	NCA SOP	**79.4**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-42 (045A)			**Soil**			**Sampled: 10/17/08 11:27**				
% Solids	NCA SOP	**55.3**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-44 (046A)			**Soil**			**Sampled: 10/17/08 11:22**				
% Solids	NCA SOP	**53.5**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-46 (047A)			**Soil**			**Sampled: 10/17/08 11:12**				
% Solids	NCA SOP	**68.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-48 (048A)			**Soil**			**Sampled: 10/17/08 11:02**				

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-48 (048A)			**Soil**			**Sampled: 10/17/08 11:02**				
% Solids	NCA SOP	**47.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-50 (049A)			**Soil**			**Sampled: 10/17/08 10:51**				
% Solids	NCA SOP	**83.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-52 (050A)			**Soil**			**Sampled: 10/17/08 10:43**				
% Solids	NCA SOP	**81.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-54 (051A)			**Soil**			**Sampled: 10/17/08 10:22**				
% Solids	NCA SOP	**78.6**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-56 (052A)			**Soil**			**Sampled: 10/17/08 10:10**				
% Solids	NCA SOP	**48.9**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-58 (053A)			**Soil**			**Sampled: 10/17/08 09:55**				
% Solids	NCA SOP	**78.8**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-60 (054A)			**Soil**			**Sampled: 10/17/08 15:50**				
% Solids	NCA SOP	**77.4**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-62 (055A)			**Soil**			**Sampled: 10/17/08 10:08**				
% Solids	NCA SOP	**79.8**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-64 (056A)			**Soil**			**Sampled: 10/17/08 10:27**				
% Solids	NCA SOP	**75.5**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-66 (057A)			**Soil**			**Sampled: 10/17/08 10:42**				
% Solids	NCA SOP	**69.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-68 (058A)			**Soil**			**Sampled: 10/17/08 11:52**				

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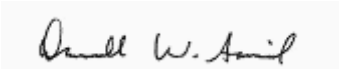

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-68 (058A)			**Soil**			**Sampled: 10/17/08 11:52**				
% Solids	NCA SOP	**73.4**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-70 (059A)			**Soil**			**Sampled: 10/17/08 11:03**				
% Solids	NCA SOP	**43.1**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-72 (060A)			**Soil**			**Sampled: 10/17/08 11:11**				
% Solids	NCA SOP	**75.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-74 (016B)			**Soil**			**Sampled: 10/17/08 14:52**				
% Solids	NCA SOP	**77.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
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Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8100902 **Other wet Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8100902-BLK1)									Extracted: 10/23/08 09:57					
Arsenic	EPA 6010B	ND	---	25.3	mg/kg	1x	--	--	--	--	--	--	11/04/08 18:22	
Cadmium	"	ND	---	3.03	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	1.52	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	10.1	"	"	--	--	--	--	--	--	11/05/08 19:28	
LCS (8100902-BS1)									Extracted: 10/23/08 09:57					
Arsenic	EPA 6010B	48.0	---	24.5	mg/kg	1x	--	49.0	97.9%	(80-120)	--	--	11/04/08 18:28	
Cadmium	"	24.5	---	2.94	"	"	--	24.5	99.8%	"	--	--	"	
Chromium	"	51.3	---	1.47	"	"	--	49.0	105%	"	--	--	"	
Lead	"	50.8	---	9.80	"	"	--	"	104%	"	--	--	11/05/08 19:34	
Duplicate (8100902-DUP1)				QC Source: PRJ0682-01					Extracted: 10/23/08 09:57					
Arsenic	EPA 6010B	ND	---	24.0	mg/kg	1x	ND	--	--	--	44.0%	(20)	11/04/08 18:54	R4
Cadmium	"	4.29	---	2.88	"	"	4.03	--	--	--	6.39%	"	"	
Chromium	"	113	---	1.44	"	"	141	--	--	--	21.6%	"	"	R3
Lead	"	53.8	---	9.62	"	"	47.1	--	--	--	13.5%	(40)	11/05/08 19:40	
Matrix Spike (8100902-MS1)				QC Source: PRJ0682-01					Extracted: 10/23/08 09:57					
Arsenic	EPA 6010B	50.7	---	25.0	mg/kg	1x	5.32	50.0	90.9%	(75-125)	--	--	11/04/08 19:00	
Cadmium	"	22.4	---	3.00	"	"	4.03	25.0	73.6%	"	--	--	"	M8
Chromium	"	209	---	1.50	"	"	141	50.0	137%	"	--	--	"	MHA
Lead	"	144	---	10.0	"	"	47.1	"	195%	"	--	--	11/05/08 19:47	M7
Matrix Spike (8100902-MS2)				QC Source: PRJ0682-21					Extracted: 10/23/08 09:57					
Arsenic	EPA 6010B	43.8	---	24.5	mg/kg	1x	1.57	49.0	86.1%	(75-125)	--	--	11/04/08 20:11	
Cadmium	"	20.9	---	2.94	"	"	2.40	24.5	75.5%	"	--	--	"	
Chromium	"	146	---	1.47	"	"	81.6	49.0	132%	"	--	--	"	MHA
Lead	"	383	---	98.0	"	10x	314	"	142%	"	--	--	11/05/08 19:53	MHA

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Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

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QC Batch: 8101101 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8101101-BLK1)								Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	ND	---	25.3	mg/kg wet	1x	--	--	--	--	--	--	10/29/08 20:56	
Chromium	"	ND	---	1.52	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	10.1	"	"	--	--	--	--	--	--	"	
LCS (8101101-BS1)								Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	50.3	---	25.0	mg/kg wet	1x	--	50.0	101%	(80-120)	--	--	10/29/08 21:03	
Chromium	"	51.9	---	1.50	"	"	--	"	104%	"	--	--	"	
Lead	"	50.8	---	10.0	"	"	--	"	102%	"	--	--	"	
Duplicate (8101101-DUP1)				QC Source: PRJ0682-40				Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	ND	---	31.2	mg/kg dry	1x	ND	--	--	--	43.0%	(40)	10/29/08 21:28	R4
Chromium	"	58.3	---	1.87	"	"	65.0	--	--	--	10.9%	"	"	
Lead	"	24.2	---	12.5	"	"	24.9	--	--	--	2.81%	"	"	
Matrix Spike (8101101-MS1)				QC Source: PRJ0682-40				Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	55.0	---	30.0	mg/kg dry	1x	2.58	60.0	87.3%	(75-125)	--	--	10/29/08 21:35	
Chromium	"	124	---	1.80	"	"	65.0	"	97.9%	"	--	--	"	
Lead	"	71.9	---	12.0	"	"	24.9	"	78.4%	"	--	--	"	
Matrix Spike (8101101-MS2)				QC Source: PRJ0682-60				Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	64.6	---	32.0	mg/kg dry	1x	0.457	64.0	100%	(75-125)	--	--	10/29/08 22:58	
Chromium	"	81.0	---	1.92	"	"	9.76	"	111%	"	--	--	"	
Lead	"	70.5	---	12.8	"	"	33.7	"	57.5%	"	--	--	"	M8

TestAmerica Portland

Darrell Auvil, Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

SPLP Metals per EPA 1312/6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8101189 **Other dry Preparation Method: EPA 1311/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8101189-BLK1)									Extracted: 10/30/08 10:59					
Arsenic	1312/6020	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	10/30/08 18:56	
Cadmium	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (8101189-BS1)									Extracted: 10/30/08 10:59					
Arsenic	1312/6020	0.203	---	0.0100	mg/l	1x	--	0.200	102%	(75-125)	--	--	10/30/08 19:02	
Cadmium	"	0.179	---	0.00500	"	"	--	"	89.5%	"	--	--	"	
Chromium	"	0.188	---	0.0200	"	"	--	"	93.8%	"	--	--	"	
Lead	"	0.206	---	0.0100	"	"	--	"	103%	"	--	--	"	
Duplicate (8101189-DUP1)				QC Source: PRJ0682-03					Extracted: 10/30/08 10:59					
Arsenic	1312/6020	ND	---	0.0100	mg/l	1x	ND	--	--	--	NR	(20)	10/30/08 19:16	
Cadmium	"	ND	---	0.00500	"	"	ND	--	--	--	NR	"	"	
Chromium	"	ND	---	0.0200	"	"	ND	--	--	--	4.51%	"	"	
Lead	"	0.0279	---	0.0100	"	"	0.0269	--	--	--	3.65%	"	"	
Matrix Spike (8101189-MS1)				QC Source: PRJ0682-06					Extracted: 10/30/08 10:59					
Arsenic	1312/6020	0.204	---	0.0100	mg/l	1x	ND	0.200	102%	(75-125)	--	--	10/30/08 19:36	
Cadmium	"	0.179	---	0.00500	"	"	ND	"	89.5%	"	--	--	"	
Chromium	"	0.190	---	0.0200	"	"	ND	"	94.8%	"	--	--	"	
Lead	"	0.226	---	0.0100	"	"	0.0187	"	103%	"	--	--	"	
Matrix Spike (8101189-MS2)				QC Source: PRJ0728-01					Extracted: 10/30/08 10:59					
Arsenic	1312/6020	0.220	---	0.0100	mg/l	1x	0.00570	0.200	107%	(75-125)	--	--	10/30/08 20:22	
Cadmium	"	0.180	---	0.00500	"	"	0.000900	"	89.4%	"	--	--	"	
Chromium	"	0.259	---	0.0200	"	"	0.0664	"	96.3%	"	--	--	"	
Lead	"	0.187	---	0.0100	"	"	ND	"	93.6%	"	--	--	"	

TestAmerica Portland

Darrell Auvil, Project Manager

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8100995 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8100995-DUP1)					**QC Source: PRJ0682-52**				**Extracted: 10/25/08 11:18**					
% Solids	NCA SOP	77.1	---	0.0100	% by Weight	1x	81.2	--	--	--	5.18%	(20)	10/25/08 11:18	

QC Batch: 8100996 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8100996-DUP1)					**QC Source: PRJ0682-09**				**Extracted: 10/25/08 11:20**					
% Solids	NCA SOP	93.7	---	0.0100	% by Weight	1x	93.7	--	--	--	0.00%	(20)	10/25/08 11:20	

QC Batch: 8100997 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8100997-DUP1)					**QC Source: PRJ0658-08**				**Extracted: 10/25/08 11:21**					
% Solids	NCA SOP	95.2	---	0.0100	% by Weight	1x	92.6	--	--	--	2.77%	(20)	10/25/08 11:21	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	11/06/08 16:11

Notes and Definitions

Report Specific Notes:

M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R3	-	The RPD exceeded the acceptance limit due to sample matrix effects.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

Darrell Auvil, Project Manager

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PRJ0682

HAHN AND ASSOCIATES, INC.

Environmental Management

434 NW Sixth Avenue Suite 203 • Portland OR 97209

(503) 796-0717 • Fax (503) 227-2209

Laboratory Test America

Lab Project No.

CHAIN OF CUSTODY

Chain of Custody No. 1 of 3

Project Manager: Dave Pardue
Project No: 7518
Project Name: CCTRPB
Collected by: DSP/JCK

Liquid with Sediment Sample
____ Test Filtrate ____ Test Sediment ____ Test Both

Multi-Phase Sample
____ Test One (which) ____ Test Separately ____ Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N)
Provide Preliminary Fax Results

Sample Number Prefix:
7518-081017-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Cr, Pb 6010B ICP	As 6010B ICP	Cd 6010B ICP	As, Cd, Cr, Pb SPLP	Cr, Pb SPLP					RUSH	Remarks
	001B	17-Oct-08	1025	0.25-0.5'	x			1	X										
	001C	17-Oct-08	1030	0.5-0.75'	x			1											
	002A	17-Oct-08	1538	0.0-0.25'	x			1				X							
	002B	17-Oct-08	1541	0.25-0.5'	x			1	X										
	002C	17-Oct-08	1545	0.5-0.75'	x			1											
	007A	17-Oct-08	1550	0.0-0.25'	x			1				X							
	007B	17-Oct-08	1555	0.25-0.5'	x			1	X	X	X								
	007C	17-Oct-08	1600	0.5-0.75'	x			1											
	010B	17-Oct-08	1540	0.25-0.5'	x			1	X										
	010C	17-Oct-08	1545	0.5-0.75'	x			1											
	013B	17-Oct-08	1525	0.25-0.5'	x			1	X										
	013C	17-Oct-08	1529	0.5-0.75'	x			1											
	014A	17-Oct-08	1455	0.0-0.25'	x			1				X							
	014B	17-Oct-08	1500	0.25-0.5'	x			1	X	X									
	014C	17-Oct-08	1505	0.5-0.75'	x			1											
	021B	17-Oct-08	1441	0.25-0.5'	x			1	X										
	021C	17-Oct-08	1446	0.5-0.75'	x			1											
	026B	17-Oct-08	1423	0.25-0.5'	x			1	X										
	026C	17-Oct-08	1427	0.5-0.75'	x			1											
	027A	17-Oct-08	1405	0.0-0.25'	x			1					X						
	027B	17-Oct-08	1410	0.25-0.5'	x			1	X										
	027C	17-Oct-08	1415	0.5-0.75'	x			1											
	029A	17-Oct-08	1415	0.0-0.25'	x			1					X						
	029B	17-Oct-08	1418	0.25-0.5'	x			1	X										
	029C	17-Oct-08	1424	0.5-0.75'	x			1											
	037A	17-Oct-08	941	0.0-0.25'	x			1	X										
	037B	17-Oct-08	1216	0.25-0.5'	x			1											
	038A	17-Oct-08	946	0.0-0.25'	x			1	X										
	038B	17-Oct-08	1226	0.25-0.5'	x			1											
	039A	17-Oct-08	1312	0.0-0.25'	x			1	X										
	039B	17-Oct-08	1315	0.25-0.5'	x			1											
	040A	17-Oct-08	1317	0.0-0.25'	x			1	X										
	040B	17-Oct-08	1322	0.25-0.5'	x			1											

Relinquished by	Company	Date	Time	Received by	Company
D Pardue	HAHN & ASSOC	10/20/08	1355		TAP
	TAP	10/20/08	1415	Miranda Eckley	TAP

PR50682

HAHN AND ASSOCIATES, INC.

Environmental Management

434 NW Sixth Avenue, Suite 203 • Portland OR 97209

(503) 796-0717 • Fax (503) 227-2209

Laboratory Test America

Lab Project No.

CHAIN OF CUSTODY

Chain of Custody No. 1 of 3

Project Manager: Dave Pardue
Project No: 7518
Project Name: CCTRPB
Collected by: DSP/JCK

Liquid with Sediment Sample

____ Test Filtrate ____ Test Sediment ____ Test Both

Multi-Phase Sample

____ Test One (which) ____ Test Separately ____ Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N)
Provide Preliminary Fax Results

Sample Number Prefix:
7518-081017-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Cr, Pb 6010B ICP	As 6010B ICP	Cd 6010B ICP	As, Cd, Cr, Pb SPLP	Cr, Pb SPLP					RUSH	Remarks
	041A	17-Oct-08	1341	0.0-0.25'	x			1	X										
	041B	17-Oct-08	1344	0.25-0.5'	x			1											
	042A	17-Oct-08	1340	0.0-0.25'	x			1	X										
	042B	17-Oct-08	1344	0.25-0.5'	x			1											
	043A	17-Oct-08	1358	0.0-0.25'	x			1	X										
	043B	17-Oct-08	1359	0.25-0.5'	x			1											
	044A	17-Oct-08	1406	0.0-0.25'	x			1	X										
	044B	17-Oct-08	1409	0.25-0.5'	x			1											
	045A	17-Oct-08	1127	0.0-0.25'	x			1	X										
	045B	17-Oct-08	1220	0.25-0.5'	x			1											
	046A	17-Oct-08	1122	0.0-0.25'	x			1	X										
	046B	17-Oct-08	1225	0.25-0.5'	x			1											
	047A	17-Oct-08	1112	0.0-0.25'	x			1	X										
	047B	17-Oct-08	1230	0.25-0.5'	x			1											
	048A	17-Oct-08	1102	0.0-0.25'	x			1	X										
	048B	17-Oct-08	1240	0.25-0.5'	x			1											
	049A	17-Oct-08	1051	0.0-0.25'	x			1	X										
	049B	17-Oct-08	1249	0.25-0.5'	x			1											
	050A	17-Oct-08	1043	0.0-0.25'	x			1	X										
	050B	17-Oct-08	1255	0.25-0.5'	x			1											
	051A	17-Oct-08	1022	0.0-0.25'	x			1	X										
	051B	17-Oct-08	1258	0.25-0.5'	x			1											
	052A	17-Oct-08	1010	0.0-0.25'	x			1	X										
	052B	17-Oct-08	1243	0.25-0.5'	x			1											
	053A	17-Oct-08	955	0.0-0.25'	x			1	X										
	053B	17-Oct-08	1235	0.25-0.5'	x			1											
	054A	17-Oct-08	1550	0.0-0.25'	x			1	X										
	054B	17-Oct-08	1552	0.25-0.5'	x			1											
	055A	17-Oct-08	1008	0.0-0.25'	x			1	X										
	055B	17-Oct-08	1248	0.25-0.5'	x			1											
	056A	17-Oct-08	1027	0.0-0.25'	x			1	X										
	056B	17-Oct-08	1305	0.25-0.5'	x			1											
	057A	17-Oct-08	1042	0.0-0.25'	x			1	X										

Relinquished by	Company	Date	Time	Received by	Company
D Pardue	HAHN & ASSOC	10/20/08	1355		TAP
	TAP	10-20-08	1415		TAP

PR50682

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Laboratory Test America

Lab Project No.

CHAIN OF CUSTODY

Chain of Custody No. 1 of 3

Project Manager: Dave Pardue
Project No: 7518
Project Name: CCTRPB
Collected by: DSP/JCK

Liquid with Sediment Sample

____ Test Filtrate ____ Test Sediment ____ Test Both

Multi-Phase Sample

____ Test One (which) ____ Test Separately ____ Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N)
Provide Preliminary Fax Results

Sample Number Prefix:
7518-081017-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Cr, Pb 6010B ICP	As 6010B ICP	Cd 6010B ICP	As, Cd, Cr, Pb SPLP	Cr, Pb SPLP					RUSH	Remarks
	057B	17-Oct-08	1259	0.25-0.5'	x			1											
	058A	17-Oct-08	1152	0.0-0.25'	x			1	X										
	058B	17-Oct-08	1246	0.25-0.5'	x			1											
	059A	17-Oct-08	1103	0.0-0.25'	x			1	X										
	059B	17-Oct-08	1236	0.25-0.5'	x			1											
	060A	17-Oct-08	1111	0.0-0.25'	x			1	X										
	060B	17-Oct-08	1233	0.25-0.5'	x			1											
	016B	17-Oct-08	1452	0.25-0.5'	x			1	X	X									
	016C	17-Oct-08	1456	0.5-0.75'	x			1											

Relinquished by	Company	Date	Time	Received by	Company
DPardue	HAHN & ASSOC	10/20/08	1355		TAP
	TAP	10-20-08	1415		TAP

TestAmerica Sample Receipt Checklist

Cooler ID(s)

Received by: *(section A)*
Date: 10/20/05
Time: 1415
Initials: BLE

Unpacked by: *(section B)*
Date: 10/20/05
Initials: BLE

Logged-in by:
Date: 10/20/05
Initials: BLE

Work Order No. PRJ0682
Client: Hahn & Associates
Project: CCT RPD

Temperature out of range:
___Not enough Ice
___*No Ice*
___*Ice Melted*
___*W/in 4 Hours*
___*Other:*_____

***ESI Clients *(see Section C)*

Digi #1
Digi #2

Cooler Temperature (IR): 17.0 °C plastic (glass) NA *(oil/air samples, ESI client)*

Temperature Blank: _____ °C

A

Custody Seals: (#___)

Signature: Y N Dated:_____
X None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
X Gel Ice
BLE ~~X Loose Ice~~
___None

Packing Material:
___Bubble Bags
___Styrofoam Cubbies
___Peanuts
X None (___Other:_____)

Received from:
X TA Courier
___Senvoy
___UPS
___Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	
For Analyses Requested:			
Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	
Volatiles/ Oil Quality:			
VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA
Metals:			
HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided Digi: # 1 #2

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

December 01, 2008

Dave Pardue
Hahn and Associates, Inc.
434 NW Sixth Ave., Suite 203
Portland, OR 97209

RE: CCT RPD

Enclosed are the results of analyses for samples received by the laboratory on 10/20/08 14:15. The following list is a summary of the Work Orders contained in this report, generated on 12/01/08 14:29.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PRJ0682	CCT RPD	7518

TestAmerica Portland

Darrell Auvil, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
001B	PRJ0682-01	Soil	10/17/08 10:25	10/20/08 14:15
001C	PRJ0682-02	Soil	10/17/08 10:30	10/20/08 14:15
002A	PRJ0682-03	Soil	10/17/08 15:38	10/20/08 14:15
002B	PRJ0682-04	Soil	10/17/08 15:41	10/20/08 14:15
002C	PRJ0682-05	Soil	10/17/08 15:45	10/20/08 14:15
007A	PRJ0682-06	Soil	10/17/08 15:50	10/20/08 14:15
007B	PRJ0682-07	Soil	10/17/08 15:55	10/20/08 14:15
007C	PRJ0682-08	Soil	10/17/08 16:00	10/20/08 14:15
010B	PRJ0682-09	Soil	10/17/08 15:40	10/20/08 14:15
010C	PRJ0682-10	Soil	10/17/08 15:45	10/20/08 14:15
013B	PRJ0682-11	Soil	10/17/08 15:25	10/20/08 14:15
014A	PRJ0682-13	Soil	10/17/08 14:55	10/20/08 14:15
014B	PRJ0682-14	Soil	10/17/08 15:00	10/20/08 14:15
014C	PRJ0682-15	Soil	10/17/08 15:05	10/20/08 14:15
021B	PRJ0682-16	Soil	10/17/08 14:41	10/20/08 14:15
021C	PRJ0682-17	Soil	10/17/08 14:46	10/20/08 14:15
026B	PRJ0682-18	Soil	10/17/08 14:23	10/20/08 14:15
026C	PRJ0682-19	Soil	10/17/08 14:27	10/20/08 14:15
027A	PRJ0682-20	Soil	10/17/08 14:05	10/20/08 14:15
027B	PRJ0682-21	Soil	10/17/08 14:10	10/20/08 14:15
027C	PRJ0682-22	Soil	10/17/08 14:15	10/20/08 14:15
029A	PRJ0682-23	Soil	10/17/08 14:15	10/20/08 14:15
029B	PRJ0682-24	Soil	10/17/08 14:18	10/20/08 14:15
029C	PRJ0682-25	Soil	10/17/08 14:24	10/20/08 14:15
037A	PRJ0682-26	Soil	10/17/08 09:41	10/20/08 14:15
038A	PRJ0682-28	Soil	10/17/08 09:46	10/20/08 14:15
039A	PRJ0682-30	Soil	10/17/08 13:12	10/20/08 14:15
039B	PRJ0682-31	Soil	10/17/08 13:15	10/20/08 14:15
040A	PRJ0682-32	Soil	10/17/08 13:17	10/20/08 14:15
041A	PRJ0682-34	Soil	10/17/08 13:41	10/20/08 14:15
042A	PRJ0682-36	Soil	10/17/08 13:40	10/20/08 14:15
043A	PRJ0682-38	Soil	10/17/08 13:58	10/20/08 14:15
044A	PRJ0682-40	Soil	10/17/08 14:06	10/20/08 14:15
045A	PRJ0682-42	Soil	10/17/08 11:27	10/20/08 14:15
045B	PRJ0682-43	Soil	10/17/08 12:20	10/20/08 14:15

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
046A	PRJ0682-44	Soil	10/17/08 11:22	10/20/08 14:15
047A	PRJ0682-46	Soil	10/17/08 11:12	10/20/08 14:15
047B	PRJ0682-47	Soil	10/17/08 12:30	10/20/08 14:15
048A	PRJ0682-48	Soil	10/17/08 11:02	10/20/08 14:15
049A	PRJ0682-50	Soil	10/17/08 10:51	10/20/08 14:15
050A	PRJ0682-52	Soil	10/17/08 10:43	10/20/08 14:15
051A	PRJ0682-54	Soil	10/17/08 10:22	10/20/08 14:15
052A	PRJ0682-56	Soil	10/17/08 10:10	10/20/08 14:15
052B	PRJ0682-57	Soil	10/17/08 12:43	10/20/08 14:15
053A	PRJ0682-58	Soil	10/17/08 09:55	10/20/08 14:15
054A	PRJ0682-60	Soil	10/17/08 15:50	10/20/08 14:15
055A	PRJ0682-62	Soil	10/17/08 10:08	10/20/08 14:15
056A	PRJ0682-64	Soil	10/17/08 10:27	10/20/08 14:15
057A	PRJ0682-66	Soil	10/17/08 10:42	10/20/08 14:15
058A	PRJ0682-68	Soil	10/17/08 11:52	10/20/08 14:15
058B	PRJ0682-69	Soil	10/17/08 12:46	10/20/08 14:15
059A	PRJ0682-70	Soil	10/17/08 11:03	10/20/08 14:15
059B	PRJ0682-71	Soil	10/17/08 12:36	10/20/08 14:15
060A	PRJ0682-72	Soil	10/17/08 11:11	10/20/08 14:15
016B	PRJ0682-74	Soil	10/17/08 14:52	10/20/08 14:15
016C	PRJ0682-75	Soil	10/17/08 14:56	10/20/08 14:15

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Total Metals per EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-01 (001B)			**Soil**			**Sampled: 10/17/08 10:25**				
Chromium	EPA 6010B	**141**	-----	1.43	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 18:47	
Lead	"	**47.1**	-----	9.52	"	"	"	"	11/05/08 20:13	
PRJ0682-02 (001C)			**Soil**			**Sampled: 10/17/08 10:30**				
Chromium	EPA 6010B	**66.0**	-----	1.97	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 17:17	
PRJ0682-04 (002B)			**Soil**			**Sampled: 10/17/08 15:41**				
Arsenic	EPA 6010B	ND	-----	25.3	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:07	
Cadmium	"	**4.40**	-----	3.03	"	"	"	"	"	
Chromium	"	**64.1**	-----	1.52	"	"	"	"	"	
Lead	"	**216**	-----	10.1	"	"	"	"	11/05/08 20:19	
Silver	"	ND	-----	3.03	"	"	"	"	11/04/08 19:07	
PRJ0682-05 (002C)			**Soil**			**Sampled: 10/17/08 15:45**				
Lead	EPA 6010B	**26.5**	-----	12.2	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 17:36	
PRJ0682-07 (007B)			**Soil**			**Sampled: 10/17/08 15:55**				
Arsenic	EPA 6010B	ND	-----	24.3	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:26	
Cadmium	"	**5.89**	-----	2.91	"	"	"	"	"	
Chromium	"	**12.0**	-----	1.46	"	"	"	"	"	
Lead	"	**18.5**	-----	9.71	"	"	"	"	11/05/08 20:26	
Silver	"	ND	-----	2.91	"	"	"	"	11/04/08 19:26	
PRJ0682-08 (007C)			**Soil**			**Sampled: 10/17/08 16:00**				
Cadmium	EPA 6010B	ND	-----	3.46	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 17:55	
PRJ0682-09 (010B)			**Soil**			**Sampled: 10/17/08 15:40**				
Chromium	EPA 6010B	**151**	-----	1.43	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:33	
Lead	"	**1280**	-----	95.2	"	10x	"	"	11/05/08 20:32	

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-10 (010C)			**Soil**			**Sampled: 10/17/08 15:45**				
Chromium	EPA 6010B	**38.9**	-----	1.64	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 18:02	
Lead	"	**1690**	-----	109	"	10x	"	"	11/21/08 14:23	
PRJ0682-11 (013B)			**Soil**			**Sampled: 10/17/08 15:25**				
Chromium	EPA 6010B	**31.9**	-----	1.46	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:39	
Lead	"	ND	-----	9.71	"	"	"	"	11/05/08 20:38	
PRJ0682-14 (014B)			**Soil**			**Sampled: 10/17/08 15:00**				
Arsenic	EPA 6010B	ND	-----	25.0	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:46	
Chromium	"	**117**	-----	1.50	"	"	"	"	"	
Lead	"	**97.6**	-----	10.0	"	"	"	"	11/05/08 20:45	
PRJ0682-15 (014C)			**Soil**			**Sampled: 10/17/08 15:05**				
Chromium	EPA 6010B	**48.8**	-----	1.92	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 18:08	
PRJ0682-16 (021B)			**Soil**			**Sampled: 10/17/08 14:41**				
Chromium	EPA 6010B	**70.7**	-----	1.49	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:52	
Lead	"	**2160**	-----	99.0	"	10x	"	"	11/05/08 20:51	
PRJ0682-17 (021C)			**Soil**			**Sampled: 10/17/08 14:46**				
Lead	EPA 6010B	**2160**	-----	114	mg/kg dry	10x	8110607	11/18/08 10:27	11/21/08 14:29	
PRJ0682-18 (026B)			**Soil**			**Sampled: 10/17/08 14:23**				
Chromium	EPA 6010B	**384**	-----	1.50	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 19:58	
Lead	"	**597**	-----	100	"	10x	"	"	11/05/08 20:58	
PRJ0682-19 (026C)			**Soil**			**Sampled: 10/17/08 14:27**				
Chromium	EPA 6010B	**82.0**	-----	1.82	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 18:21	
Lead	"	**141**	-----	12.2	"	"	"	"	"	

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-21 (027B)			**Soil**			**Sampled: 10/17/08 14:10**				
Chromium	EPA 6010B	**81.6**	-----	1.44	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:05	
Lead	"	**314**	-----	96.2	"	10x	"	"	11/05/08 21:04	
PRJ0682-22 (027C)			**Soil**			**Sampled: 10/17/08 14:15**				
Lead	EPA 6010B	**65.1**	-----	11.6	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 18:27	
PRJ0682-24 (029B)			**Soil**			**Sampled: 10/17/08 14:18**				
Chromium	EPA 6010B	**44.3**	-----	1.47	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:18	
Lead	"	**132**	-----	9.80	"	"	"	"	11/05/08 21:11	
PRJ0682-25 (029C)			**Soil**			**Sampled: 10/17/08 14:24**				
Lead	EPA 6010B	**309**	-----	14.3	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 18:34	
PRJ0682-26 (037A)			**Soil**			**Sampled: 10/17/08 09:41**				
Chromium	EPA 6010B	**32.9**	-----	1.49	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:24	
Lead	"	ND	-----	9.90	"	"	"	"	11/05/08 21:30	
PRJ0682-28 (038A)			**Soil**			**Sampled: 10/17/08 09:46**				
Chromium	EPA 6010B	**30.5**	-----	1.43	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:44	
Lead	"	**10.6**	-----	9.52	"	"	"	"	11/05/08 21:37	
PRJ0682-30 (039A)			**Soil**			**Sampled: 10/17/08 13:12**				
Chromium	EPA 6010B	**75.0**	-----	1.50	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:50	
Lead	"	**363**	-----	100	"	10x	"	"	11/05/08 21:43	
PRJ0682-31 (039B)			**Soil**			**Sampled: 10/17/08 13:15**				
Lead	EPA 6010B	**87.7**	-----	13.7	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 18:40	
PRJ0682-32 (040A)			**Soil**			**Sampled: 10/17/08 13:17**				
Chromium	EPA 6010B	**83.1**	-----	1.46	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 20:57	
Lead	"	**110**	-----	9.71	"	"	"	"	11/05/08 21:50	

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-34 (041A)			**Soil**			**Sampled: 10/17/08 13:41**				
Chromium	EPA 6010B	**35.7**	-----	1.50	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 21:03	
Lead	"	ND	-----	10.0	"	"	"	"	11/05/08 21:56	
PRJ0682-36 (042A)			**Soil**			**Sampled: 10/17/08 13:40**				
Chromium	EPA 6010B	**48.6**	-----	1.49	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 21:10	
Lead	"	ND	-----	9.90	"	"	"	"	11/05/08 22:03	
PRJ0682-38 (043A)			**Soil**			**Sampled: 10/17/08 13:58**				
Chromium	EPA 6010B	**72.5**	-----	1.46	mg/kg	1x	8100902	10/23/08 09:57	11/04/08 21:16	
Lead	"	**61.4**	-----	9.71	"	"	"	"	11/05/08 22:09	
PRJ0682-40 (044A)			**Soil**			**Sampled: 10/17/08 14:06**				
Chromium	EPA 6010B	**65.0**	-----	1.85	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:22	
Lead	"	**24.9**	-----	12.3	"	"	"	"	"	
PRJ0682-42 (045A)			**Soil**			**Sampled: 10/17/08 11:27**				
Chromium	EPA 6010B	**136**	-----	2.66	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:41	
Lead	"	**434**	-----	17.7	"	"	"	"	"	
PRJ0682-43 (045B)			**Soil**			**Sampled: 10/17/08 12:20**				
Chromium	EPA 6010B	**69.3**	-----	2.32	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 18:47	
Lead	"	**454**	-----	155	"	10x	"	"	11/21/08 14:36	
PRJ0682-44 (046A)			**Soil**			**Sampled: 10/17/08 11:22**				
Chromium	EPA 6010B	**109**	-----	2.72	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:48	
Lead	"	**39.0**	-----	18.1	"	"	"	"	"	
PRJ0682-46 (047A)			**Soil**			**Sampled: 10/17/08 11:12**				
Chromium	EPA 6010B	**266**	-----	2.12	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 21:54	
Lead	"	**53.9**	-----	14.2	"	"	"	"	"	

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-47 (047B)			**Soil**			**Sampled: 10/17/08 12:30**				
Chromium	EPA 6010B	**33.3**	-----	1.90	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 19:13	
PRJ0682-48 (048A)			**Soil**			**Sampled: 10/17/08 11:02**				
Chromium	EPA 6010B	**43.1**	-----	3.09	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:00	
Lead	"	ND	-----	20.6	"	"	"	"	"	
PRJ0682-50 (049A)			**Soil**			**Sampled: 10/17/08 10:51**				
Chromium	EPA 6010B	**51.1**	-----	1.78	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:07	
Lead	"	**21.4**	-----	11.8	"	"	"	"	"	
PRJ0682-52 (050A)			**Soil**			**Sampled: 10/17/08 10:43**				
Chromium	EPA 6010B	**75.0**	-----	1.85	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:13	
Lead	"	**12.5**	-----	12.3	"	"	"	"	"	
PRJ0682-54 (051A)			**Soil**			**Sampled: 10/17/08 10:22**				
Chromium	EPA 6010B	**59.0**	-----	1.93	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:20	
Lead	"	ND	-----	12.9	"	"	"	"	"	
PRJ0682-56 (052A)			**Soil**			**Sampled: 10/17/08 10:10**				
Chromium	EPA 6010B	**929**	-----	3.01	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:39	
Lead	"	**500**	-----	20.0	"	"	"	"	"	
PRJ0682-57 (052B)			**Soil**			**Sampled: 10/17/08 12:43**				
Chromium	EPA 6010B	**49.1**	-----	2.12	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 19:19	
Lead	"	**245**	-----	14.1	"	"	"	"	"	
PRJ0682-58 (053A)			**Soil**			**Sampled: 10/17/08 09:55**				
Chromium	EPA 6010B	**40.6**	-----	1.85	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:45	
Lead	"	**12.8**	-----	12.3	"	"	"	"	"	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-60 (054A)			**Soil**			**Sampled: 10/17/08 15:50**				
Chromium	EPA 6010B	**9.76**	-----	1.92	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 22:52	
Lead	"	**33.7**	-----	12.8	"	"	"	"	"	
PRJ0682-62 (055A)			**Soil**			**Sampled: 10/17/08 10:08**				
Chromium	EPA 6010B	**49.6**	-----	1.86	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:05	
Lead	"	ND	-----	12.4	"	"	"	"	"	
PRJ0682-64 (056A)			**Soil**			**Sampled: 10/17/08 10:27**				
Chromium	EPA 6010B	**79.4**	-----	1.91	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:11	
Lead	"	**23.9**	-----	12.7	"	"	"	"	"	
PRJ0682-66 (057A)			**Soil**			**Sampled: 10/17/08 10:42**				
Chromium	EPA 6010B	**95.6**	-----	2.06	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:18	
Lead	"	**31.2**	-----	13.8	"	"	"	"	"	
PRJ0682-68 (058A)			**Soil**			**Sampled: 10/17/08 11:52**				
Chromium	EPA 6010B	**165**	-----	2.02	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:24	
Lead	"	**44.1**	-----	13.5	"	"	"	"	"	
PRJ0682-69 (058B)			**Soil**			**Sampled: 10/17/08 12:46**				
Chromium	EPA 6010B	**73.7**	-----	1.67	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 19:25	
PRJ0682-70 (059A)			**Soil**			**Sampled: 10/17/08 11:03**				
Chromium	EPA 6010B	**539**	-----	3.31	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:31	
Lead	"	**127**	-----	22.1	"	"	"	"	"	
PRJ0682-71 (059B)			**Soil**			**Sampled: 10/17/08 12:36**				
Chromium	EPA 6010B	**187**	-----	4.99	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 19:32	
PRJ0682-72 (060A)			**Soil**			**Sampled: 10/17/08 11:11**				
Chromium	EPA 6010B	**59.2**	-----	1.90	mg/kg dry	1x	8101101	10/28/08 14:07	10/29/08 23:37	
Lead	"	ND	-----	12.7	"	"	"	"	"	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Total Metals per EPA 6000/7000 Series Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-74 (016B)			**Soil**			**Sampled: 10/17/08 14:52**				
Arsenic	EPA 6010B	ND	-----	32.1	mg/kg dry	1x	8101101	10/28/08 14:07	11/04/08 12:27	
Chromium	"	**348**	-----	1.92	"	"	"	"	"	
Lead	"	**101**	-----	12.8	"	"	"	"	11/05/08 13:39	
PRJ0682-75 (016C)			**Soil**			**Sampled: 10/17/08 14:56**				
Chromium	EPA 6010B	**87.9**	-----	1.89	mg/kg dry	1x	8110607	11/18/08 10:27	11/19/08 19:38	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

SPLP Metals per EPA 1312/6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-03 (002A)			**Soil**			**Sampled: 10/17/08 15:38**				
Arsenic	1312/6020	ND	-----	0.0100	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:11	
Cadmium	"	ND	-----	0.00500	"	"	"	"	"	
Chromium	"	ND	-----	0.0200	"	"	"	"	"	
Lead	"	**0.0269**	-----	0.0100	"	"	"	"	"	
PRJ0682-06 (007A)			**Soil**			**Sampled: 10/17/08 15:50**				
Arsenic	1312/6020	ND	-----	0.0100	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:22	
Cadmium	"	ND	-----	0.00500	"	"	"	"	"	
Chromium	"	ND	-----	0.0200	"	"	"	"	"	
Lead	"	**0.0187**	-----	0.0100	"	"	"	"	"	
PRJ0682-13 (014A)			**Soil**			**Sampled: 10/17/08 14:55**				
Arsenic	1312/6020	ND	-----	0.0100	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:45	
Cadmium	"	ND	-----	0.00500	"	"	"	"	"	
Chromium	"	ND	-----	0.0200	"	"	"	"	"	
Lead	"	**0.0105**	-----	0.0100	"	"	"	"	"	
PRJ0682-20 (027A)			**Soil**			**Sampled: 10/17/08 14:05**				
Chromium	1312/6020	ND	-----	0.0200	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:51	
Lead	"	**0.0523**	-----	0.0100	"	"	"	"	"	
PRJ0682-23 (029A)			**Soil**			**Sampled: 10/17/08 14:15**				
Chromium	1312/6020	ND	-----	0.0200	mg/l	1x	8101189	10/30/08 10:59	10/30/08 19:57	
Lead	"	**0.0508**	-----	0.0100	"	"	"	"	"	

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-02 (001C)			**Soil**			**Sampled: 10/17/08 10:30**				
% Solids	NCA SOP	**76.9**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-04 (002B)			**Soil**			**Sampled: 10/17/08 15:41**				
% Solids	NCA SOP	**73.9**	-----	0.0100	% by Weight	1x	8100997	10/25/08 11:21	10/25/08 11:21	
PRJ0682-05 (002C)			**Soil**			**Sampled: 10/17/08 15:45**				
% Solids	NCA SOP	**78.1**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-07 (007B)			**Soil**			**Sampled: 10/17/08 15:55**				
% Solids	NCA SOP	**79.4**	-----	0.0100	% by Weight	1x	8100997	10/25/08 11:21	10/25/08 11:21	
PRJ0682-08 (007C)			**Soil**			**Sampled: 10/17/08 16:00**				
% Solids	NCA SOP	**84.3**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-09 (010B)			**Soil**			**Sampled: 10/17/08 15:40**				
% Solids	NCA SOP	**93.7**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-10 (010C)			**Soil**			**Sampled: 10/17/08 15:45**				
% Solids	NCA SOP	**91.7**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-11 (013B)			**Soil**			**Sampled: 10/17/08 15:25**				
% Solids	NCA SOP	**68.5**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-14 (014B)			**Soil**			**Sampled: 10/17/08 15:00**				
% Solids	NCA SOP	**77.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-15 (014C)			**Soil**			**Sampled: 10/17/08 15:05**				
% Solids	NCA SOP	**77.5**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-16 (021B)			**Soil**			**Sampled: 10/17/08 14:41**				

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Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-16 (021B)			**Soil**			**Sampled: 10/17/08 14:41**				
% Solids	NCA SOP	**87.7**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-17 (021C)			**Soil**			**Sampled: 10/17/08 14:46**				
% Solids	NCA SOP	**84.7**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-18 (026B)			**Soil**			**Sampled: 10/17/08 14:23**				
% Solids	NCA SOP	**83.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-19 (026C)			**Soil**			**Sampled: 10/17/08 14:27**				
% Solids	NCA SOP	**81.4**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-21 (027B)			**Soil**			**Sampled: 10/17/08 14:10**				
% Solids	NCA SOP	**85.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-22 (027C)			**Soil**			**Sampled: 10/17/08 14:15**				
% Solids	NCA SOP	**82.8**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-24 (029B)			**Soil**			**Sampled: 10/17/08 14:18**				
% Solids	NCA SOP	**71.9**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-25 (029C)			**Soil**			**Sampled: 10/17/08 14:24**				
% Solids	NCA SOP	**69.9**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-26 (037A)			**Soil**			**Sampled: 10/17/08 09:41**				
% Solids	NCA SOP	**84.7**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-28 (038A)			**Soil**			**Sampled: 10/17/08 09:46**				
% Solids	NCA SOP	**80.8**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-30 (039A)			**Soil**			**Sampled: 10/17/08 13:12**				

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
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Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-30 (039A)			**Soil**			**Sampled: 10/17/08 13:12**				
% Solids	NCA SOP	**51.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-31 (039B)			**Soil**			**Sampled: 10/17/08 13:15**				
% Solids	NCA SOP	**72.9**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-32 (040A)			**Soil**			**Sampled: 10/17/08 13:17**				
% Solids	NCA SOP	**71.2**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-34 (041A)			**Soil**			**Sampled: 10/17/08 13:41**				
% Solids	NCA SOP	**79.5**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-36 (042A)			**Soil**			**Sampled: 10/17/08 13:40**				
% Solids	NCA SOP	**82.4**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-38 (043A)			**Soil**			**Sampled: 10/17/08 13:58**				
% Solids	NCA SOP	**74.0**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-40 (044A)			**Soil**			**Sampled: 10/17/08 14:06**				
% Solids	NCA SOP	**79.4**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-42 (045A)			**Soil**			**Sampled: 10/17/08 11:27**				
% Solids	NCA SOP	**55.3**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-43 (045B)			**Soil**			**Sampled: 10/17/08 12:20**				
% Solids	NCA SOP	**63.4**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-44 (046A)			**Soil**			**Sampled: 10/17/08 11:22**				
% Solids	NCA SOP	**53.5**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-46 (047A)			**Soil**			**Sampled: 10/17/08 11:12**				

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Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Percent Dry Weight (Solids) per Standard Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-46 (047A)			**Soil**			**Sampled: 10/17/08 11:12**				
% Solids	NCA SOP	**68.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-47 (047B)			**Soil**			**Sampled: 10/17/08 12:30**				
% Solids	NCA SOP	**75.8**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-48 (048A)			**Soil**			**Sampled: 10/17/08 11:02**				
% Solids	NCA SOP	**47.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-50 (049A)			**Soil**			**Sampled: 10/17/08 10:51**				
% Solids	NCA SOP	**83.6**	-----	0.0100	% by Weight	1x	8100996	10/25/08 11:20	10/25/08 11:20	
PRJ0682-52 (050A)			**Soil**			**Sampled: 10/17/08 10:43**				
% Solids	NCA SOP	**81.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-54 (051A)			**Soil**			**Sampled: 10/17/08 10:22**				
% Solids	NCA SOP	**78.6**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-56 (052A)			**Soil**			**Sampled: 10/17/08 10:10**				
% Solids	NCA SOP	**48.9**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-57 (052B)			**Soil**			**Sampled: 10/17/08 12:43**				
% Solids	NCA SOP	**68.1**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-58 (053A)			**Soil**			**Sampled: 10/17/08 09:55**				
% Solids	NCA SOP	**78.8**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-60 (054A)			**Soil**			**Sampled: 10/17/08 15:50**				
% Solids	NCA SOP	**77.4**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-62 (055A)			**Soil**			**Sampled: 10/17/08 10:08**				

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Percent Dry Weight (Solids) per Standard Methods

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PRJ0682-62 (055A)			**Soil**			**Sampled: 10/17/08 10:08**				
% Solids	NCA SOP	**79.8**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-64 (056A)			**Soil**			**Sampled: 10/17/08 10:27**				
% Solids	NCA SOP	**75.5**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-66 (057A)			**Soil**			**Sampled: 10/17/08 10:42**				
% Solids	NCA SOP	**69.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-68 (058A)			**Soil**			**Sampled: 10/17/08 11:52**				
% Solids	NCA SOP	**73.4**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-69 (058B)			**Soil**			**Sampled: 10/17/08 12:46**				
% Solids	NCA SOP	**88.3**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-70 (059A)			**Soil**			**Sampled: 10/17/08 11:03**				
% Solids	NCA SOP	**43.1**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-71 (059B)			**Soil**			**Sampled: 10/17/08 12:36**				
% Solids	NCA SOP	**29.5**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**
PRJ0682-72 (060A)			**Soil**			**Sampled: 10/17/08 11:11**				
% Solids	NCA SOP	**75.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-74 (016B)			**Soil**			**Sampled: 10/17/08 14:52**				
% Solids	NCA SOP	**77.2**	-----	0.0100	% by Weight	1x	8100995	10/25/08 11:18	10/25/08 11:18	
PRJ0682-75 (016C)			**Soil**			**Sampled: 10/17/08 14:56**				
% Solids	NCA SOP	**75.7**	-----	0.0100	% by Weight	1x	8110749	11/21/08 07:26	11/21/08 07:26	**H1**

TestAmerica Portland

Darrell Auvil, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8100902 **Other wet Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8100902-BLK1)								Extracted: 10/23/08 09:57						
Arsenic	EPA 6010B	ND	---	25.3	mg/kg	1x	--	--	--	--	--	--	11/04/08 18:22	
Cadmium	"	ND	---	3.03	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	1.52	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	10.1	"	"	--	--	--	--	--	--	11/05/08 19:28	
Silver	"	ND	---	3.03	"	"	--	--	--	--	--	--	11/04/08 18:22	
LCS (8100902-BS1)								Extracted: 10/23/08 09:57						
Arsenic	EPA 6010B	48.0	---	24.5	mg/kg	1x	--	49.0	97.9%	(80-120)	--	--	11/04/08 18:28	
Cadmium	"	24.5	---	2.94	"	"	--	24.5	99.8%	"	--	--	"	
Chromium	"	51.3	---	1.47	"	"	--	49.0	105%	"	--	--	"	
Lead	"	50.8	---	9.80	"	"	--	"	104%	"	--	--	11/05/08 19:34	
Silver	"	24.0	---	2.94	"	"	--	24.5	98.0%	"	--	--	11/04/08 18:28	
Duplicate (8100902-DUP1)				QC Source: PRJ0682-01				Extracted: 10/23/08 09:57						
Arsenic	EPA 6010B	ND	---	24.0	mg/kg	1x	ND	--	--	--	44.0%	(20)	11/04/08 18:54	R4
Cadmium	"	4.29	---	2.88	"	"	4.03	--	--	--	6.39%	"	"	
Chromium	"	113	---	1.44	"	"	141	--	--	--	21.6%	"	"	R3
Lead	"	53.8	---	9.62	"	"	47.1	--	--	--	13.5%	(40)	11/05/08 19:40	
Silver	"	ND	---	2.88	"	"	ND	--	--	--	2.48%	(20)	11/04/08 18:54	
Matrix Spike (8100902-MS1)				QC Source: PRJ0682-01				Extracted: 10/23/08 09:57						
Arsenic	EPA 6010B	50.7	---	25.0	mg/kg	1x	5.32	50.0	90.9%	(75-125)	--	--	11/04/08 19:00	
Cadmium	"	22.4	---	3.00	"	"	4.03	25.0	73.6%	"	--	--	"	M8
Chromium	"	209	---	1.50	"	"	141	50.0	137%	"	--	--	"	MHA
Lead	"	144	---	10.0	"	"	47.1	"	195%	"	--	--	11/05/08 19:47	M7
Silver	"	27.0	---	3.00	"	"	0.243	25.0	107%	"	--	--	11/04/08 19:00	
Matrix Spike (8100902-MS2)				QC Source: PRJ0682-21				Extracted: 10/23/08 09:57						
Arsenic	EPA 6010B	43.8	---	24.5	mg/kg	1x	1.57	49.0	86.1%	(75-125)	--	--	11/04/08 20:11	
Cadmium	"	20.9	---	2.94	"	"	2.40	24.5	75.5%	"	--	--	"	
Chromium	"	146	---	1.47	"	"	81.6	49.0	132%	"	--	--	"	MHA
Lead	"	383	---	98.0	"	10x	314	"	142%	"	--	--	11/05/08 19:53	MHA
Silver	"	25.8	---	2.94	"	1x	ND	24.5	105%	"	--	--	11/04/08 20:11	

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Darrell Auvil, Project Manager

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8101101 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8101101-BLK1)								Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	ND	---	25.3	mg/kg wet	1x	--	--	--	--	--	--	10/29/08 20:56	
Chromium	"	ND	---	1.52	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	10.1	"	"	--	--	--	--	--	--	"	
LCS (8101101-BS1)								Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	50.3	---	25.0	mg/kg wet	1x	--	50.0	101%	(80-120)	--	--	10/29/08 21:03	
Chromium	"	51.9	---	1.50	"	"	--	"	104%	"	--	--	"	
Lead	"	50.8	---	10.0	"	"	--	"	102%	"	--	--	"	
Duplicate (8101101-DUP1)				QC Source: PRJ0682-40				Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	ND	---	31.2	mg/kg dry	1x	ND	--	--	--	43.0%	(40)	10/29/08 21:28	R4
Chromium	"	58.3	---	1.87	"	"	65.0	--	--	--	10.9%	"	"	
Lead	"	24.2	---	12.5	"	"	24.9	--	--	--	2.81%	"	"	
Matrix Spike (8101101-MS1)				QC Source: PRJ0682-40				Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	55.0	---	30.0	mg/kg dry	1x	2.58	60.0	87.3%	(75-125)	--	--	10/29/08 21:35	
Chromium	"	124	---	1.80	"	"	65.0	"	97.9%	"	--	--	"	
Lead	"	71.9	---	12.0	"	"	24.9	"	78.4%	"	--	--	"	
Matrix Spike (8101101-MS2)				QC Source: PRJ0682-60				Extracted: 10/28/08 14:07						
Arsenic	EPA 6010B	64.6	---	32.0	mg/kg dry	1x	0.457	64.0	100%	(75-125)	--	--	10/29/08 22:58	
Chromium	"	81.0	---	1.92	"	"	9.76	"	111%	"	--	--	"	
Lead	"	70.5	---	12.8	"	"	33.7	"	57.5%	"	--	--	"	M8

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Total Metals per EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8110607 **Soil Preparation Method: EPA 3050**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8110607-BLK1)								Extracted: 11/18/08 10:27						
Cadmium	EPA 6010B	ND	---	2.86	mg/kg wet	1x	--	--	--	--	--	--	11/19/08 17:04	
Chromium	"	ND	---	1.43	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	9.52	"	"	--	--	--	--	--	--	"	
LCS (8110607-BS1)								Extracted: 11/18/08 10:27						
Cadmium	EPA 6010B	25.9	---	2.94	mg/kg wet	1x	--	24.5	106%	(80-120)	--	--	11/19/08 17:10	
Chromium	"	51.3	---	1.47	"	"	--	49.0	105%	"	--	--	"	
Lead	"	51.0	---	9.80	"	"	--	"	104%	"	--	--	"	
Duplicate (8110607-DUP1)				QC Source: PRJ0682-02				Extracted: 11/18/08 10:27						
Cadmium	EPA 6010B	ND	---	3.72	mg/kg dry	1x	ND	--	--	--	16.7%	(40)	11/19/08 17:23	
Chromium	"	57.0	---	1.86	"	"	66.0	--	--	--	14.6%	"	"	
Lead	"	ND	---	12.4	"	"	ND	--	--	--	5.75%	"	"	
Matrix Spike (8110607-MS1)				QC Source: PRJ0682-02				Extracted: 11/18/08 10:27						
Cadmium	EPA 6010B	30.7	---	3.90	mg/kg dry	1x	0.795	32.5	92.0%	(75-125)	--	--	11/19/08 17:29	
Chromium	"	127	---	1.95	"	"	66.0	65.0	94.1%	"	--	--	"	
Lead	"	60.3	---	13.0	"	"	4.64	"	85.5%	"	--	--	"	
Matrix Spike (8110607-MS2)				QC Source: PRJ0682-43				Extracted: 11/18/08 10:27						
Cadmium	EPA 6010B	41.1	---	4.69	mg/kg dry	1x	0.485	39.0	104%	(75-125)	--	--	11/19/08 18:53	
Chromium	"	200	---	2.34	"	"	69.3	78.1	168%	"	--	--	"	M7
Lead	"	688	---	156	"	10x	454	"	300%	"	--	--	11/21/08 14:16	MHA

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

SPLP Metals per EPA 1312/6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8101189 **Other dry Preparation Method: EPA 1311/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (8101189-BLK1)									Extracted: 10/30/08 10:59					
Arsenic	1312/6020	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	10/30/08 18:56	
Cadmium	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (8101189-BS1)									Extracted: 10/30/08 10:59					
Arsenic	1312/6020	0.203	---	0.0100	mg/l	1x	--	0.200	102%	(75-125)	--	--	10/30/08 19:02	
Cadmium	"	0.179	---	0.00500	"	"	--	"	89.5%	"	--	--	"	
Chromium	"	0.188	---	0.0200	"	"	--	"	93.8%	"	--	--	"	
Lead	"	0.206	---	0.0100	"	"	--	"	103%	"	--	--	"	
Duplicate (8101189-DUP1)				QC Source: PRJ0682-03					Extracted: 10/30/08 10:59					
Arsenic	1312/6020	ND	---	0.0100	mg/l	1x	ND	--	--	--	NR	(20)	10/30/08 19:16	
Cadmium	"	ND	---	0.00500	"	"	ND	--	--	--	NR	"	"	
Chromium	"	ND	---	0.0200	"	"	ND	--	--	--	4.51%	"	"	
Lead	"	0.0279	---	0.0100	"	"	0.0269	--	--	--	3.65%	"	"	
Matrix Spike (8101189-MS1)				QC Source: PRJ0682-06					Extracted: 10/30/08 10:59					
Arsenic	1312/6020	0.204	---	0.0100	mg/l	1x	ND	0.200	102%	(75-125)	--	--	10/30/08 19:36	
Cadmium	"	0.179	---	0.00500	"	"	ND	"	89.5%	"	--	--	"	
Chromium	"	0.190	---	0.0200	"	"	ND	"	94.8%	"	--	--	"	
Lead	"	0.226	---	0.0100	"	"	0.0187	"	103%	"	--	--	"	
Matrix Spike (8101189-MS2)				QC Source: PRJ0728-01					Extracted: 10/30/08 10:59					
Arsenic	1312/6020	0.220	---	0.0100	mg/l	1x	0.00570	0.200	107%	(75-125)	--	--	10/30/08 20:22	
Cadmium	"	0.180	---	0.00500	"	"	0.000900	"	89.4%	"	--	--	"	
Chromium	"	0.259	---	0.0200	"	"	0.0664	"	96.3%	"	--	--	"	
Lead	"	0.187	---	0.0100	"	"	ND	"	93.6%	"	--	--	"	

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Darrell Auvil, Project Manager

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Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Percent Dry Weight (Solids) per Standard Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 8100995 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8100995-DUP1)					**QC Source: PRJ0682-52**				**Extracted: 10/25/08 11:18**					
% Solids	NCA SOP	77.1	---	0.0100	% by Weight	1x	81.2	--	--	--	5.18%	(20)	10/25/08 11:18	

QC Batch: 8100996 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8100996-DUP1)					**QC Source: PRJ0682-09**				**Extracted: 10/25/08 11:20**					
% Solids	NCA SOP	93.7	---	0.0100	% by Weight	1x	93.7	--	--	--	0.00%	(20)	10/25/08 11:20	

QC Batch: 8100997 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8100997-DUP1)					**QC Source: PRJ0658-08**				**Extracted: 10/25/08 11:21**					
% Solids	NCA SOP	95.2	---	0.0100	% by Weight	1x	92.6	--	--	--	2.77%	(20)	10/25/08 11:21	

QC Batch: 8110749 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (8110749-DUP1)					**QC Source: PRJ0682-02**				**Extracted: 11/21/08 07:26**					
% Solids	NCA SOP	81.2	---	0.0100	% by Weight	1x	76.9	--	--	--	5.44%	(20)	11/21/08 07:26	

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434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	12/01/08 14:29

Notes and Definitions

Report Specific Notes:

H1	-	Sample analysis performed past the method-specified holding time per client's approval.
M7	-	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	-	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	-	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R3	-	The RPD exceeded the acceptance limit due to sample matrix effects.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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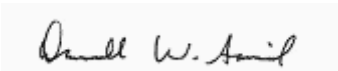

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PRJ0682

HAHN AND ASSOCIATES, INC.

Environmental Management

434 NW Sixth Avenue Suite 203 • Portland OR 97209

(503) 796-0717 • Fax (503) 227-2209

Laboratory Test America

Lab Project No.

CHAIN OF CUSTODY

Chain of Custody No. 1 of 3

Project Manager: Dave Pardue
Project No: 7518
Project Name: CCTRPB
Collected by: DSP/JCK

Liquid with Sediment Sample
____ Test Filtrate ____ Test Sediment ____ Test Both

Multi-Phase Sample
____ Test One (which) ____ Test Separately ____ Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N)
Provide Preliminary Fax Results

Sample Number Prefix:
7518-081017-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Cr, Pb 6010B ICP	As 6010B ICP	Cd 6010B ICP	As, Cd, Cr, Pb SPLP	Cr, Pb SPLP					RUSH	Remarks
	001B	17-Oct-08	1025	0.25-0.5'	x			1	X										
	001C	17-Oct-08	1030	0.5-0.75'	x			1											
	002A	17-Oct-08	1538	0.0-0.25'	x			1				X							
	002B	17-Oct-08	1541	0.25-0.5'	x			1	X										
	002C	17-Oct-08	1545	0.5-0.75'	x			1											
	007A	17-Oct-08	1550	0.0-0.25'	x			1				X							
	007B	17-Oct-08	1555	0.25-0.5'	x			1	X	X	X								
	007C	17-Oct-08	1600	0.5-0.75'	x			1											
	010B	17-Oct-08	1540	0.25-0.5'	x			1	X										
	010C	17-Oct-08	1545	0.5-0.75'	x			1											
	013B	17-Oct-08	1525	0.25-0.5'	x			1	X										
	013C	17-Oct-08	1529	0.5-0.75'	x			1											
	014A	17-Oct-08	1455	0.0-0.25'	x			1				X							
	014B	17-Oct-08	1500	0.25-0.5'	x			1	X	X									
	014C	17-Oct-08	1505	0.5-0.75'	x			1											
	021B	17-Oct-08	1441	0.25-0.5'	x			1	X										
	021C	17-Oct-08	1446	0.5-0.75'	x			1											
	026B	17-Oct-08	1423	0.25-0.5'	x			1	X										
	026C	17-Oct-08	1427	0.5-0.75'	x			1											
	027A	17-Oct-08	1405	0.0-0.25'	x			1					X						
	027B	17-Oct-08	1410	0.25-0.5'	x			1	X										
	027C	17-Oct-08	1415	0.5-0.75'	x			1											
	029A	17-Oct-08	1415	0.0-0.25'	x			1					X						
	029B	17-Oct-08	1418	0.25-0.5'	x			1	X										
	029C	17-Oct-08	1424	0.5-0.75'	x			1											
	037A	17-Oct-08	941	0.0-0.25'	x			1	X										
	037B	17-Oct-08	1216	0.25-0.5'	x			1											
	038A	17-Oct-08	946	0.0-0.25'	x			1	X										
	038B	17-Oct-08	1226	0.25-0.5'	x			1											
	039A	17-Oct-08	1312	0.0-0.25'	x			1	X										
	039B	17-Oct-08	1315	0.25-0.5'	x			1											
	040A	17-Oct-08	1317	0.0-0.25'	x			1	X										
	040B	17-Oct-08	1322	0.25-0.5'	x			1											

Relinquished by	Company	Date	Time	Received by	Company
D Pardue	HAHN & ASSOC	10/20/08	1355		TAP
	TAP	10/20/08	1415	Miranda Eckley	TAP

PR50682

HAHN AND ASSOCIATES, INC.

Environmental Management

434 NW Sixth Avenue, Suite 203 • Portland OR 97209

(503) 796-0717 • Fax (503) 227-2209

Laboratory Test America

Lab Project No.

CHAIN OF CUSTODY

Chain of Custody No. 1 of 3

Project Manager: Dave Pardue
Project No: 7518
Project Name: CCTRPB
Collected by: DSP/JCK

Liquid with Sediment Sample

____ Test Filtrate ____ Test Sediment ____ Test Both

Multi-Phase Sample

____ Test One (which) ____ Test Separately ____ Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N)
Provide Preliminary Fax Results

Sample Number Prefix:
7518-081017-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Cr, Pb 6010B ICP	As 6010B ICP	Cd 6010B ICP	As, Cd, Cr, Pb SPLP	Cr, Pb SPLP					RUSH	Remarks
	041A	17-Oct-08	1341	0.0-0.25'	x			1	X										
	041B	17-Oct-08	1344	0.25-0.5'	x			1											
	042A	17-Oct-08	1340	0.0-0.25'	x			1	X										
	042B	17-Oct-08	1344	0.25-0.5'	x			1											
	043A	17-Oct-08	1358	0.0-0.25'	x			1	X										
	043B	17-Oct-08	1359	0.25-0.5'	x			1											
	044A	17-Oct-08	1406	0.0-0.25'	x			1	X										
	044B	17-Oct-08	1409	0.25-0.5'	x			1											
	045A	17-Oct-08	1127	0.0-0.25'	x			1	X										
	045B	17-Oct-08	1220	0.25-0.5'	x			1											
	046A	17-Oct-08	1122	0.0-0.25'	x			1	X										
	046B	17-Oct-08	1225	0.25-0.5'	x			1											
	047A	17-Oct-08	1112	0.0-0.25'	x			1	X										
	047B	17-Oct-08	1230	0.25-0.5'	x			1											
	048A	17-Oct-08	1102	0.0-0.25'	x			1	X										
	048B	17-Oct-08	1240	0.25-0.5'	x			1											
	049A	17-Oct-08	1051	0.0-0.25'	x			1	X										
	049B	17-Oct-08	1249	0.25-0.5'	x			1											
	050A	17-Oct-08	1043	0.0-0.25'	x			1	X										
	050B	17-Oct-08	1255	0.25-0.5'	x			1											
	051A	17-Oct-08	1022	0.0-0.25'	x			1	X										
	051B	17-Oct-08	1258	0.25-0.5'	x			1											
	052A	17-Oct-08	1010	0.0-0.25'	x			1	X										
	052B	17-Oct-08	1243	0.25-0.5'	x			1											
	053A	17-Oct-08	955	0.0-0.25'	x			1	X										
	053B	17-Oct-08	1235	0.25-0.5'	x			1											
	054A	17-Oct-08	1550	0.0-0.25'	x			1	X										
	054B	17-Oct-08	1552	0.25-0.5'	x			1											
	055A	17-Oct-08	1008	0.0-0.25'	x			1	X										
	055B	17-Oct-08	1248	0.25-0.5'	x			1											
	056A	17-Oct-08	1027	0.0-0.25'	x			1	X										
	056B	17-Oct-08	1305	0.25-0.5'	x			1											
	057A	17-Oct-08	1042	0.0-0.25'	x			1	X										

Relinquished by	Company	Date	Time	Received by	Company
D Pardue	HAHN & ASSOC	10/20/08	1355		TAP
	TAP	10-20-08	1415		TAP

PR50682

HAHN AND ASSOCIATES, INC.

Environmental Management

434 NW Sixth Avenue, Suite 203 • Portland OR 97209

(503) 796-0717 • Fax (503) 227-2209

Laboratory Test America

Lab Project No.

CHAIN OF CUSTODY

Chain of Custody No. 1 of 3

Project Manager: Dave Pardue
Project No: 7518
Project Name: CCTRPB
Collected by: DSP/JCK

Liquid with Sediment Sample

____ Test Filtrate ____ Test Sediment ____ Test Both

Multi-Phase Sample

____ Test One (which) ____ Test Separately ____ Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N)
Provide Preliminary Fax Results

Sample Number Prefix:
7518-081017-

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Cr, Pb 6010B ICP	As 6010B ICP	Cd 6010B ICP	As, Cd, Cr, Pb SPLP	Cr, Pb SPLP					RUSH	Remarks
	057B	17-Oct-08	1259	0.25-0.5'	x			1											
	058A	17-Oct-08	1152	0.0-0.25'	x			1	X										
	058B	17-Oct-08	1246	0.25-0.5'	x			1											
	059A	17-Oct-08	1103	0.0-0.25'	x			1	X										
	059B	17-Oct-08	1236	0.25-0.5'	x			1											
	060A	17-Oct-08	1111	0.0-0.25'	x			1	X										
	060B	17-Oct-08	1233	0.25-0.5'	x			1											
	016B	17-Oct-08	1452	0.25-0.5'	x			1	X	X									
	016C	17-Oct-08	1456	0.5-0.75'	x			1											

Relinquished by	Company	Date	Time	Received by	Company
DPardue	HAHN & ASSOC	10/20/08	1355		TAP
	TAP	10-20-08	1415		TAP

TestAmerica Sample Receipt Checklist

Cooler ID(s)

Received by: *(section A)*
Date: 10/20/05
Time: 1415
Initials: BLE

Unpacked by: *(section B)*
Date: 10/20/05
Initials: BLE

Logged-in by:
Date: 10/20/05
Initials: BLE

Work Order No. PRJ0682
Client: Hahn & Associates
Project: CCT RPD

Temperature out of range:
___Not enough Ice
___*No Ice*
___*Ice Melted*
___*W/in 4 Hours*
___*Other:*_____

***ESI Clients *(see Section C)*

Digi #1
Digi #2

Cooler Temperature (IR): 17.0 °C plastic (glass) NA *(oil/air samples, ESI client)*

Temperature Blank: _____ °C

A

Custody Seals: (#___)

Signature: Y N Dated:_____
X None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
X Gel Ice
BLE ~~X Loose Ice~~
___None

Packing Material:
___Bubble Bags
___Styrofoam Cubbies
___Peanuts
X None (___Other:_____)

Received from:
X TA Courier
___Senvoy
___UPS
___Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:
_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	
For Analyses Requested:			
Cyanide Checked?	Y	N	NA
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	
Volatiles/ Oil Quality:			
VOAs/ Syringes free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA
Metals:			
HNO3 Preserved?	Y	N	NA
Dissolved Metals Filtered?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided Digi: # 1 #2

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

FED EX/ UPS: Was the tracking paper keepable? YES NO

If circled NO, what is the Tracking number? _____

FED EX Goldstreak UPS DHL Other: _____

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Hahn and Associates, Inc.	Project Name:	**CCT RPD**	
434 NW Sixth Ave., Suite 203	Project Number:	7518	Report Created:
Portland, OR 97209	Project Manager:	Dave Pardue	08/15/08 15:08

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

Darrell Auvil, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Canyon Creek Soil and Sediment Phase 3 & 4

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, November 17, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE Canyon Creek Trestle / 7985

Enclosed are the results of analyses for work order A11H403, which was received by the laboratory on 8/31/2011 at 10:03:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CYN-110830-77-A	A11H403-01	Soil	08/30/11 10:27	08/31/11 10:03
CYN-110830-57-B	A11H403-04	Soil	08/30/11 11:31	08/31/11 10:03
CYN-110830-75-A	A11H403-06	Soil	08/30/11 14:35	08/31/11 10:03
CYN-110830-74-A	A11H403-09	Soil	08/30/11 15:12	08/31/11 10:03
CYN-110830-52-B	A11H403-13	Soil	08/30/11 15:47	08/31/11 10:03
CYN-110830-72-A	A11H403-15	Soil	08/30/11 09:10	08/31/11 10:03
CYN-110830-73-A	A11H403-18	Soil	08/30/11 09:44	08/31/11 10:03
CYN-110830-69-A	A11H403-21	Soil	08/30/11 09:30	08/31/11 10:03
CYN-110830-47-B	A11H403-24	Soil	08/30/11 10:00	08/31/11 10:03
CYN-110830-76-A	A11H403-26	Soil	08/30/11 10:39	08/31/11 10:03
CYN-110830-15-B	A11H403-29	Soil	08/30/11 11:27	08/31/11 10:03
CYN-110830-10-C	A11H403-32	Soil	08/30/11 12:13	08/31/11 10:03
CYN-110830-05-B	A11H403-34	Soil	08/30/11 14:50	08/31/11 10:03
CYN-110830-05-C	A11H403-35	Soil	08/30/11 15:02	08/31/11 10:03
CYN-110830-04-B	A11H403-37	Soil	08/30/11 15:40	08/31/11 10:03
CYN-110830-04-BD	A11H403-38	Soil	08/30/11 15:40	08/31/11 10:03
CYN-110830-04-C	A11H403-39	Soil	08/30/11 15:50	08/31/11 10:03
CYN-110830-02-C	A11H403-42	Soil	08/30/11 16:27	08/31/11 10:03
CYN-110829-66-A	A11H404-01	Soil	08/29/11 09:50	08/31/11 10:03
CYN-110829-66-B	A11H404-02	Soil	08/29/11 10:01	08/31/11 10:03
CYN-110829-66-C	A11H404-03	Soil	08/29/11 10:12	08/31/11 10:03
CYN-110829-43-B	A11H404-04	Soil	08/29/11 10:32	08/31/11 10:03
CYN-110829-20-B	A11H404-06	Soil	08/29/11 11:39	08/31/11 10:03
CYN-110829-20-C	A11H404-07	Soil	08/29/11 11:45	08/31/11 10:03
CYN-110829-29-C	A11H404-09	Soil	08/29/11 12:37	08/31/11 10:03
CYN-110829-67-A	A11H404-10	Soil	08/29/11 14:39	08/31/11 10:03
CYN-110829-67-B	A11H404-11	Soil	08/29/11 14:44	08/31/11 10:03
CYN-110829-67-C	A11H404-12	Soil	08/29/11 14:55	08/31/11 10:03
CYN-110829-70-A	A11H404-13	Soil	08/29/11 15:15	08/31/11 10:03
CYN-110829-70-B	A11H404-14	Soil	08/29/11 15:22	08/31/11 10:03
CYN-110829-70-C	A11H404-15	Soil	08/29/11 15:35	08/31/11 10:03
CYN-110829-71-A	A11H404-16	Soil	08/29/11 15:52	08/31/11 10:03
CYN-110829-71A-D	A11H404-17	Soil	08/29/11 15:52	08/31/11 10:03
CYN-110829-65-A	A11H404-20	Soil	08/29/11 10:01	08/31/11 10:03
CYN-110829-65-B	A11H404-21	Soil	08/29/11 10:10	08/31/11 10:03

Apex Laboratories

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CYN-110829-65-C	A11H404-22	Soil	08/29/11 10:20	08/31/11 10:03
CYN-110829-64-A	A11H404-23	Soil	08/29/11 10:55	08/31/11 10:03
CYN-110829-22-B	A11H404-26	Soil	08/29/11 11:30	08/31/11 10:03
CYN-110829-26-C	A11H404-29	Soil	08/29/11 12:21	08/31/11 10:03
CYN-110829-27-C	A11H404-31	Soil	08/29/11 14:46	08/31/11 10:03
CYN-110829-25-B	A11H404-32	Soil	08/29/11 15:15	08/31/11 10:03
CYN-110829-59-B	A11H404-33	Soil	08/29/11 15:42	08/31/11 10:03
CYN-110831-54-B	A11I030-02	Soil	08/31/11 09:45	09/02/11 10:40
CYN-110831-54-C	A11I030-03	Soil	08/31/11 09:52	09/02/11 10:40
CYN-110831-68-A	A11I030-04	Soil	08/31/11 10:24	09/02/11 10:40
CYN-110831-68-AD	A11I030-05	Soil	08/31/11 10:24	09/02/11 10:40
CYN-110831-68-B	A11I030-06	Soil	08/31/11 10:45	09/02/11 10:40
CYN-110831-68-C	A11I030-07	Soil	08/31/11 10:52	09/02/11 10:40
CYN-110831-09-B	A11I030-09	Soil	08/31/11 11:27	09/02/11 10:40
CYN-110831-09-C	A11I030-10	Soil	08/31/11 11:36	09/02/11 10:40
CYN-110831-11-B	A11I030-12	Soil	08/31/11 12:24	09/02/11 10:40
CYN-110831-11-C	A11I030-13	Soil	08/31/11 12:34	09/02/11 10:40
CYN-110831-21-C	A11I030-16	Soil	08/31/11 13:14	09/02/11 10:40
CYN-110831-61-A	A11I030-17	Soil	08/31/11 09:36	09/02/11 10:40
CYN-110831-61-B	A11I030-19	Soil	08/31/11 09:46	09/02/11 10:40
CYN-110831-61-C	A11I030-20	Soil	08/31/11 09:56	09/02/11 10:40
CYN-110831-62-A	A11I030-21	Soil	08/31/11 10:06	09/02/11 10:40
CYN-110831-62-B	A11I030-22	Soil	08/31/11 10:15	09/02/11 10:40
CYN-110831-62-C	A11I030-23	Soil	08/31/11 10:28	09/02/11 10:40
CYN-110831-63-A	A11I030-24	Soil	08/31/11 10:50	09/02/11 10:40
CYN-110831-63-B	A11I030-25	Soil	08/31/11 11:00	09/02/11 10:40
CYN-110831-63-C	A11I030-26	Soil	08/31/11 11:15	09/02/11 10:40
CYN-110831-39-B	A11I030-28	Soil	08/31/11 11:30	09/02/11 10:40
CYN-110831-39-C	A11I030-29	Soil	08/31/11 11:38	09/02/11 10:40
CYN-110831-12-B	A11I030-31	Soil	08/31/11 12:41	09/02/11 10:40
CYN-110831-12-C	A11I030-32	Soil	08/31/11 13:00	09/02/11 10:40
CYN-110926-11-C	A11I394-01	Soil	09/26/11 09:30	09/28/11 10:30
CYN-110926-11-D	A11I394-02	Soil	09/26/11 09:50	09/28/11 10:30
CYN-110926-11-E	A11I394-03	Soil	09/26/11 10:25	09/28/11 10:30
CYN-110926-11-F	A11I394-04	Soil	09/26/11 11:15	09/28/11 10:30

Apex Laboratories

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CYN-110926-10-D	A11I394-05	Soil	09/26/11 09:55	09/28/11 10:30
CYN-110926-10-E	A11I394-06	Soil	09/26/11 10:10	09/28/11 10:30
CYN-110926-02-D	A11I394-08	Soil	09/26/11 11:50	09/28/11 10:30
CYN-110926-02-E	A11I394-09	Soil	09/26/11 11:54	09/28/11 10:30
CYN-110926-07-C	A11I394-12	Soil	09/26/11 13:10	09/28/11 10:30
CYN-110926-07-D	A11I394-13	Soil	09/26/11 13:15	09/28/11 10:30
CYN-110926-07-E	A11I394-14	Soil	09/26/11 13:22	09/28/11 10:30
CYN-110926-78-A	A11I394-16	Soil	09/26/11 11:33	09/28/11 10:30
CYN-110926-78-B	A11I394-17	Soil	09/26/11 13:39	09/28/11 10:30
CYN-110926-78-C	A11I394-18	Soil	09/26/11 13:43	09/28/11 10:30
CYN-110926-78-D	A11I394-19	Soil	09/26/11 13:49	09/28/11 10:30
CYN-110926-78-E	A11I394-20	Soil	09/26/11 13:55	09/28/11 10:30
CYN-110926-04-C	A11I394-22	Soil	09/26/11 14:23	09/28/11 10:30
CYN-110926-04-D	A11I394-23	Soil	09/26/11 14:33	09/28/11 10:30
CYN-110926-04-E	A11I394-24	Soil	09/26/11 14:37	09/28/11 10:30
CYN-110926-04-F	A11I394-25	Soil	09/26/11 14:45	09/28/11 10:30
CYN-110926-81-A	A11I394-26	Soil	09/26/11 14:55	09/28/11 10:30
CYN-110926-80-A	A11I394-28	Soil	09/26/11 15:07	09/28/11 10:30
CYN-110926-86-A	A11I394-31	Soil	09/26/11 15:40	09/28/11 10:30
CYN-110926-87-A	A11I394-33	Soil	09/26/11 15:27	09/28/11 10:30
CYN-110927-79-C	A11I428-03	Soil	09/27/11 10:00	09/29/11 13:17
CYN-110927-79-D	A11I428-04	Soil	09/27/11 10:03	09/29/11 13:17
CYN-110927-79-E	A11I428-05	Soil	09/27/11 10:06	09/29/11 13:17
CYN-110927-21-D	A11I428-07	Soil	09/27/11 10:27	09/29/11 13:17
CYN-110927-21-E	A11I428-08	Soil	09/27/11 10:33	09/29/11 13:17
CYN-110927-26-D	A11I428-10	Soil	09/27/11 11:12	09/29/11 13:17
CYN-110927-26-E	A11I428-11	Soil	09/27/11 11:20	09/29/11 13:17
CYN-110927-16-D	A11I428-14	Soil	09/27/11 11:50	09/29/11 13:17
CYN-110927-16-E	A11I428-15	Soil	09/27/11 11:55	09/29/11 13:17
CYN-110927-17-B	A11I428-17	Soil	09/27/11 12:18	09/29/11 13:17
CYN-110927-17-C	A11I428-18	Soil	09/27/11 12:22	09/29/11 13:17
CYN-110927-17-D	A11I428-19	Soil	09/27/11 12:25	09/29/11 13:17
CYN-110927-17-E	A11I428-20	Soil	09/27/11 12:28	09/29/11 13:17
CYN-110927-27-D	A11I428-22	Soil	09/27/11 14:00	09/29/11 13:17
CYN-110927-27-DD	A11I428-23	Soil	09/27/11 14:00	09/29/11 13:17

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CYN-110927-27-E	A11I428-24	Soil	09/27/11 14:04	09/29/11 13:17
CYN-110927-58-B	A11I428-26	Soil	09/27/11 14:28	09/29/11 13:17
CYN-110927-58-C	A11I428-27	Soil	09/27/11 14:37	09/29/11 13:17
CYN-110927-19-B	A11I428-31	Soil	09/27/11 15:03	09/29/11 13:17
CYN-110927-19-C	A11I428-32	Soil	09/27/11 15:07	09/29/11 13:17
CYN-110927-19-D	A11I428-33	Soil	09/27/11 15:11	09/29/11 13:17
CYN-110927-19-E	A11I428-34	Soil	09/27/11 15:13	09/29/11 13:17
CYN-110928-88-S	A11I430-01	Soil	09/28/11 09:30	09/29/11 13:17
CYN-110928-89-S	A11I430-02	Soil	09/28/11 09:47	09/29/11 13:17
CYN-110928-82-A	A11I430-03	Soil	09/28/11 10:30	09/29/11 13:17
CYN-110928-82-AD	A11I430-04	Soil	09/28/11 10:30	09/29/11 13:17
CYN-110928-83-A	A11I430-07	Soil	09/28/11 10:14	09/29/11 13:17
CYN-110928-84-A	A11I430-10	Soil	09/28/11 11:00	09/29/11 13:17
CYN-110928-85-A	A11I430-13	Soil	09/28/11 11:23	09/29/11 13:17

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Trivalent Chromium (Calculation based on Total and Hexavalent Chromium)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-12-B (A11I030-31)			**Matrix: Soil**		**Batch: [CALC]**			
Trivalent Chromium (cr3+)	**117**	---	2.33	mg/kg dry	10	09/12/11 13:56	[CALC]	
CYN-110926-78-A (A11I394-16)			**Matrix: Soil**		**Batch: [CALC]**			
Trivalent Chromium (cr3+)	**410**	---	2.12	mg/kg dry	10	09/29/11 15:23	[CALC]	
CYN-110927-19-C (A11I428-32)			**Matrix: Soil**		**Batch: [CALC]**			
Trivalent Chromium (cr3+)	**118**	---	2.32	mg/kg dry	10	10/03/11 15:45	[CALC]	

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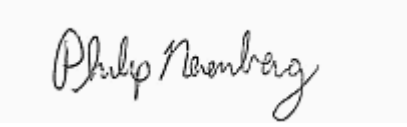

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110830-77-A (A11H403-01)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**37.6**	---	2.39	mg/kg dry	10	09/02/11 17:57	EPA 6020	
Lead	**6.35**	---	1.19	"	"	"	"	
CYN-110830-57-B (A11H403-04)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**34.9**	---	2.40	mg/kg dry	10	09/02/11 18:00	EPA 6020	
Lead	**10.2**	---	1.20	"	"	"	"	
CYN-110830-75-A (A11H403-06)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**33.7**	---	2.22	mg/kg dry	10	09/02/11 18:03	EPA 6020	
Lead	**23.0**	---	1.11	"	"	"	"	
CYN-110830-74-A (A11H403-09)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**38.8**	---	2.42	mg/kg dry	10	09/02/11 18:06	EPA 6020	
Lead	**16.0**	---	1.21	"	"	"	"	
CYN-110830-52-B (A11H403-13)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**34.3**	---	2.34	mg/kg dry	10	09/02/11 18:15	EPA 6020	
Lead	**11.7**	---	1.17	"	"	"	"	
CYN-110830-72-A (A11H403-15)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**27.9**	---	2.15	mg/kg dry	10	09/02/11 18:18	EPA 6020	
Lead	**3.28**	---	1.07	"	"	"	"	
CYN-110830-73-A (A11H403-18)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**38.1**	---	2.20	mg/kg dry	10	09/02/11 18:21	EPA 6020	
Lead	**6.80**	---	1.10	"	"	"	"	
CYN-110830-69-A (A11H403-21)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**37.8**	---	2.32	mg/kg dry	10	09/02/11 18:24	EPA 6020	
Lead	**13.2**	---	1.16	"	"	"	"	
CYN-110830-47-B (A11H403-24)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**37.2**	---	2.34	mg/kg dry	10	09/02/11 18:27	EPA 6020	
Lead	**3.53**	---	1.17	"	"	"	"	
CYN-110830-76-A (A11H403-26)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**25.4**	---	2.34	mg/kg dry	10	09/02/11 18:30	EPA 6020	
Lead	**5.61**	---	1.17	"	"	"	"	
CYN-110830-15-B (A11H403-29)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**40.9**	---	2.43	mg/kg dry	10	09/02/11 18:33	EPA 6020	
Lead	**15.2**	---	1.21	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110830-10-C (A11H403-32)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**29.5**	---	2.03	mg/kg dry	10	09/02/11 18:36	EPA 6020	
Lead	**1940**	---	1.02	"	"	"	"	
CYN-110830-05-B (A11H403-34)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**61.7**	---	2.30	mg/kg dry	10	09/02/11 18:39	EPA 6020	
Lead	**161**	---	1.15	"	"	"	"	
CYN-110830-05-C (A11H403-35)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**37.5**	---	2.55	mg/kg dry	10	09/16/11 15:25	EPA 6020	
Lead	**37.6**	---	1.27	"	"	"	"	
CYN-110830-04-B (A11H403-37)			**Matrix: Soil**		**Batch: 1109042**			
Chromium	**60.8**	---	2.23	mg/kg dry	10	09/02/11 17:02	EPA 6020	
Lead	**171**	---	1.11	"	"	"	"	
CYN-110830-04-BD (A11H403-38)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**57.8**	---	2.43	mg/kg dry	10	09/08/11 14:12	EPA 6020	
Lead	**120**	---	1.22	"	"	"	"	
CYN-110830-04-C (A11H403-39)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**63.8**	---	2.44	mg/kg dry	10	09/16/11 15:07	EPA 6020	
Lead	**263**	---	1.22	"	"	"	"	
CYN-110830-02-C (A11H403-42)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**67.4**	---	2.72	mg/kg dry	10	09/08/11 14:14	EPA 6020	
Lead	**37.3**	---	1.36	"	"	"	"	
CYN-110829-66-A (A11H404-01)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**47.6**	---	2.14	mg/kg dry	10	09/08/11 14:18	EPA 6020	
Lead	**10.7**	---	1.07	"	"	"	"	
CYN-110829-66-B (A11H404-02)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**41.2**	---	2.41	mg/kg dry	10	09/16/11 15:10	EPA 6020	
Lead	**4.45**	---	1.20	"	"	"	"	
CYN-110829-66-C (A11H404-03)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**53.2**	---	2.42	mg/kg dry	10	09/22/11 10:53	EPA 6020	
Lead	**4.35**	---	1.21	"	"	"	"	
CYN-110829-43-B (A11H404-04)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**39.4**	---	2.17	mg/kg dry	10	09/08/11 14:21	EPA 6020	
Lead	**4.58**	---	1.09	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110829-20-B (A11H404-06)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**48.5**	---	2.28	mg/kg dry	10	09/08/11 14:39	EPA 6020	
Lead	**729**	---	1.14	"	"	"	"	
CYN-110829-20-C (A11H404-07)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**29.8**	---	2.51	mg/kg dry	10	09/16/11 15:13	EPA 6020	
Lead	**50.6**	---	1.26	"	"	"	"	
CYN-110829-29-C (A11H404-09)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**32.0**	---	2.67	mg/kg dry	10	09/08/11 14:42	EPA 6020	
Lead	**14.2**	---	1.33	"	"	"	"	
CYN-110829-67-A (A11H404-10)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**81.3**	---	2.30	mg/kg dry	10	09/08/11 14:48	EPA 6020	
Lead	**20.3**	---	1.15	"	"	"	"	
CYN-110829-67-B (A11H404-11)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**50.6**	---	2.34	mg/kg dry	10	09/16/11 15:44	EPA 6020	
Lead	**25.8**	---	1.17	"	"	"	"	
CYN-110829-67-C (A11H404-12)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**50.5**	---	2.48	mg/kg dry	10	09/22/11 10:56	EPA 6020	
Lead	**5.99**	---	1.24	"	"	"	"	
CYN-110829-70-A (A11H404-13)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**52.9**	---	2.39	mg/kg dry	10	09/08/11 14:51	EPA 6020	
Lead	**9.01**	---	1.19	"	"	"	"	
CYN-110829-70-B (A11H404-14)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**37.4**	---	2.29	mg/kg dry	10	09/16/11 15:47	EPA 6020	
Lead	**5.14**	---	1.15	"	"	"	"	
CYN-110829-70-C (A11H404-15)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**47.0**	---	2.47	mg/kg dry	10	09/22/11 10:59	EPA 6020	
Lead	**3.87**	---	1.24	"	"	"	"	
CYN-110829-71-A (A11H404-16)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**40.5**	---	2.61	mg/kg dry	10	09/08/11 14:54	EPA 6020	
Lead	**5.71**	---	1.30	"	"	"	"	
CYN-110829-71A-D (A11H404-17)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**41.1**	---	2.60	mg/kg dry	10	09/08/11 14:57	EPA 6020	
Lead	**6.18**	---	1.30	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110829-65-A (A11H404-20)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**37.7**	---	2.55	mg/kg dry	10	09/08/11 15:00	EPA 6020	
Lead	**38.0**	---	1.28	"	"	"	"	
CYN-110829-65-B (A11H404-21)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**26.0**	---	2.38	mg/kg dry	10	09/16/11 15:50	EPA 6020	
Lead	**5.08**	---	1.19	"	"	"	"	
CYN-110829-65-C (A11H404-22)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**44.5**	---	2.33	mg/kg dry	10	09/22/11 11:02	EPA 6020	
Lead	**3.88**	---	1.16	"	"	"	"	
CYN-110829-64-A (A11H404-23)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**36.6**	---	2.18	mg/kg dry	10	09/08/11 15:03	EPA 6020	
Lead	**4.52**	---	1.09	"	"	"	"	
CYN-110829-22-B (A11H404-26)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**41.2**	---	2.38	mg/kg dry	10	09/08/11 15:15	EPA 6020	
Lead	**4.30**	---	1.19	"	"	"	"	
CYN-110829-26-C (A11H404-29)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**80.3**	---	2.50	mg/kg dry	10	09/08/11 15:18	EPA 6020	
Lead	**63.7**	---	1.25	"	"	"	"	
CYN-110829-27-C (A11H404-31)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**67.0**	---	2.43	mg/kg dry	10	09/08/11 15:21	EPA 6020	
Lead	**12.9**	---	1.21	"	"	"	"	
CYN-110829-25-B (A11H404-32)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**36.7**	---	2.75	mg/kg dry	10	09/08/11 15:24	EPA 6020	
Lead	**5.03**	---	1.37	"	"	"	"	
CYN-110829-59-B (A11H404-33)			**Matrix: Soil**		**Batch: 1109091**			
Chromium	**42.8**	---	2.43	mg/kg dry	10	09/08/11 15:27	EPA 6020	
Lead	**3.45**	---	1.22	"	"	"	"	
CYN-110831-54-B (A11I030-02)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**53.1**	---	2.36	mg/kg dry	10	09/12/11 13:01	EPA 6020	
Lead	**79.8**	---	1.18	"	"	"	"	
CYN-110831-54-C (A11I030-03)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**46.4**	---	2.37	mg/kg dry	10	09/16/11 15:53	EPA 6020	
Lead	**16.1**	---	1.19	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-68-A (A11I030-04)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**65.3**	---	2.39	mg/kg dry	10	09/12/11 13:04	EPA 6020	
Lead	**49.2**	---	1.19	"	"	"	"	
CYN-110831-68-AD (A11I030-05)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**60.5**	---	2.25	mg/kg dry	10	09/12/11 13:07	EPA 6020	
Lead	**53.8**	---	1.12	"	"	"	"	
CYN-110831-68-B (A11I030-06)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**48.2**	---	2.31	mg/kg dry	10	09/16/11 16:11	EPA 6020	
Lead	**12.4**	---	1.16	"	"	"	"	
CYN-110831-68-C (A11I030-07)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**55.4**	---	2.44	mg/kg dry	10	09/22/11 11:26	EPA 6020	
Lead	**36.8**	---	1.22	"	"	"	"	
CYN-110831-09-B (A11I030-09)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**64.4**	---	2.25	mg/kg dry	10	09/12/11 13:24	EPA 6020	
Lead	**106**	---	1.12	"	"	"	"	
CYN-110831-09-C (A11I030-10)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**41.4**	---	2.36	mg/kg dry	10	09/16/11 16:14	EPA 6020	
Lead	**8.56**	---	1.18	"	"	"	"	
CYN-110831-11-B (A11I030-12)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**71.8**	---	2.24	mg/kg dry	10	09/12/11 13:27	EPA 6020	
Lead	**3470**	---	11.2	"	100	09/12/11 13:53	"	
CYN-110831-11-C (A11I030-13)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**17.0**	---	2.27	mg/kg dry	10	09/16/11 16:17	EPA 6020	
Lead	**137**	---	1.13	"	"	"	"	
CYN-110831-21-C (A11I030-16)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**55.2**	---	2.30	mg/kg dry	10	09/12/11 13:30	EPA 6020	
Lead	**80.2**	---	1.15	"	"	"	"	
CYN-110831-61-A (A11I030-17)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**33.8**	---	2.38	mg/kg dry	10	09/12/11 13:33	EPA 6020	
Lead	**27.9**	---	1.19	"	"	"	"	
CYN-110831-61-B (A11I030-19)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**36.0**	---	2.36	mg/kg dry	10	09/16/11 16:20	EPA 6020	
Lead	**5.51**	---	1.18	"	"	"	"	

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503-718-2323 Phone
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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-61-C (A11I030-20)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**48.2**	---	2.48	mg/kg dry	10	09/22/11 11:29	EPA 6020	
Lead	**4.64**	---	1.24	"	"	"	"	
CYN-110831-62-A (A11I030-21)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**51.6**	---	2.57	mg/kg dry	10	09/12/11 13:36	EPA 6020	
Lead	**8.34**	---	1.29	"	"	"	"	
CYN-110831-62-B (A11I030-22)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**41.4**	---	2.42	mg/kg dry	10	09/16/11 16:23	EPA 6020	
Lead	**3.56**	---	1.21	"	"	"	"	
CYN-110831-62-C (A11I030-23)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**58.9**	---	2.28	mg/kg dry	10	09/22/11 11:33	EPA 6020	
Lead	**4.31**	---	1.14	"	"	"	"	
CYN-110831-63-A (A11I030-24)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**50.5**	---	2.28	mg/kg dry	10	09/12/11 13:39	EPA 6020	
Lead	**11.0**	---	1.14	"	"	"	"	
CYN-110831-63-B (A11I030-25)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**34.8**	---	2.53	mg/kg dry	10	09/16/11 16:26	EPA 6020	
Lead	**6.47**	---	1.27	"	"	"	"	
CYN-110831-63-C (A11I030-26)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**48.2**	---	2.42	mg/kg dry	10	09/22/11 11:36	EPA 6020	
Lead	**4.67**	---	1.21	"	"	"	"	
CYN-110831-39-B (A11I030-28)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**51.1**	---	2.61	mg/kg dry	10	09/12/11 13:42	EPA 6020	
Lead	**17.6**	---	1.30	"	"	"	"	
CYN-110831-39-C (A11I030-29)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**42.3**	---	2.49	mg/kg dry	10	09/16/11 16:29	EPA 6020	
Lead	**6.68**	---	1.25	"	"	"	"	
CYN-110831-12-B (A11I030-31)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**117**	---	2.33	mg/kg dry	10	09/12/11 13:56	EPA 6020	
Lead	**158**	---	1.16	"	"	"	"	
CYN-110831-12-C (A11I030-32)			**Matrix: Soil**		**Batch: 1109259**			
Chromium	**40.0**	---	2.46	mg/kg dry	10	09/19/11 12:42	EPA 6020	
Lead	**28.1**	---	1.23	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110926-11-C (A11I394-01)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**25.0**	---	2.22	mg/kg dry	10	09/29/11 13:00	EPA 6020	
Lead	**112**	---	1.11	"	"	"	"	
CYN-110926-11-D (A11I394-02)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**28.2**	---	2.54	mg/kg dry	10	09/29/11 13:03	EPA 6020	
Lead	**99.7**	---	1.27	"	"	"	"	
CYN-110926-11-E (A11I394-03)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**17.7**	---	2.36	mg/kg dry	10	09/29/11 14:41	EPA 6020	
Lead	**117**	---	1.18	"	"	"	"	
CYN-110926-11-F (A11I394-04)			**Matrix: Soil**		**Batch: 1110136**			
Chromium	**27.1**	---	4.87	mg/kg dry	10	10/11/11 14:39	EPA 6020	
Lead	**14.0**	---	1.22	"	"	"	"	
CYN-110926-10-D (A11I394-05)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**29.6**	---	2.32	mg/kg dry	10	09/29/11 14:47	EPA 6020	
Lead	**10.4**	---	1.16	"	"	"	"	
CYN-110926-10-E (A11I394-06)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**22.3**	---	2.29	mg/kg dry	10	09/29/11 15:05	EPA 6020	
Lead	**9.95**	---	1.15	"	"	"	"	
CYN-110926-02-D (A11I394-08)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**39.1**	---	2.45	mg/kg dry	10	09/29/11 15:08	EPA 6020	
Lead	**3.75**	---	1.23	"	"	"	"	
CYN-110926-02-E (A11I394-09)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**30.3**	---	2.62	mg/kg dry	10	09/29/11 15:11	EPA 6020	
Lead	**3.93**	---	1.31	"	"	"	"	
CYN-110926-07-C (A11I394-12)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**6.45**	---	2.27	mg/kg dry	10	09/29/11 15:14	EPA 6020	
Lead	**3.06**	---	1.13	"	"	"	"	
CYN-110926-07-D (A11I394-13)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**6.70**	---	2.33	mg/kg dry	10	09/29/11 15:17	EPA 6020	
Lead	**3.31**	---	1.17	"	"	"	"	
CYN-110926-07-E (A11I394-14)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**6.65**	---	2.38	mg/kg dry	10	09/29/11 15:20	EPA 6020	
Lead	**6.43**	---	1.19	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110926-78-A (A11I394-16)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**410**	---	2.12	mg/kg dry	10	09/29/11 15:23	EPA 6020	
Lead	**1300**	---	1.06	"	"	"	"	
CYN-110926-78-B (A11I394-17)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**17.9**	---	2.27	mg/kg dry	10	09/29/11 15:26	EPA 6020	
Lead	**25.1**	---	1.14	"	"	"	"	
CYN-110926-78-C (A11I394-18)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**6.57**	---	2.45	mg/kg dry	10	09/29/11 15:29	EPA 6020	
Lead	**7.29**	---	1.23	"	"	"	"	
CYN-110926-78-D (A11I394-19)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**4.28**	---	2.41	mg/kg dry	10	09/29/11 15:32	EPA 6020	
Lead	**4.12**	---	1.21	"	"	"	"	
CYN-110926-78-E (A11I394-20)			**Matrix: Soil**		**Batch: 1109495**			
Chromium	**20.1**	---	2.61	mg/kg dry	10	09/29/11 15:44	EPA 6020	
Lead	**24.2**	---	1.30	"	"	"	"	
CYN-110926-04-C (A11I394-22)			**Matrix: Soil**		**Batch: 1109529**			
Chromium	**24.8**	---	2.50	mg/kg dry	10	09/30/11 14:53	EPA 6020	
Lead	**18.2**	---	1.25	"	"	"	"	
CYN-110926-04-D (A11I394-23)			**Matrix: Soil**		**Batch: 1109529**			
Chromium	**35.8**	---	2.55	mg/kg dry	10	09/30/11 14:56	EPA 6020	
Lead	**42.9**	---	1.27	"	"	"	"	
CYN-110926-04-E (A11I394-24)			**Matrix: Soil**		**Batch: 1109529**			
Chromium	**38.1**	---	2.51	mg/kg dry	10	09/30/11 14:59	EPA 6020	
Lead	**98.1**	---	1.26	"	"	"	"	
CYN-110926-04-F (A11I394-25)			**Matrix: Soil**		**Batch: 1110136**			
Chromium	**35.6**	---	4.84	mg/kg dry	10	10/11/11 14:42	EPA 6020	
Lead	**56.4**	---	1.21	"	"	"	"	
CYN-110926-81-A (A11I394-26)			**Matrix: Soil**		**Batch: 1109529**			
Chromium	**30.7**	---	2.42	mg/kg dry	10	09/30/11 15:03	EPA 6020	
Lead	**10.2**	---	1.21	"	"	"	"	
CYN-110926-80-A (A11I394-28)			**Matrix: Soil**		**Batch: 1109529**			
Chromium	**47.1**	---	2.35	mg/kg dry	10	09/30/11 15:06	EPA 6020	
Lead	**13.8**	---	1.17	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110926-86-A (A11I394-31)			**Matrix: Soil**		**Batch: 1109529**			
Chromium	**45.0**	---	2.64	mg/kg dry	10	09/30/11 15:25	EPA 6020	
Lead	**10.4**	---	1.32	"	"	"	"	
CYN-110926-87-A (A11I394-33)			**Matrix: Soil**		**Batch: 1109529**			
Chromium	**48.8**	---	2.35	mg/kg dry	10	09/30/11 15:28	EPA 6020	
Lead	**10.1**	---	1.18	"	"	"	"	
CYN-110927-79-C (A11I428-03)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**41.0**	---	2.38	mg/kg dry	10	10/03/11 13:59	EPA 6020	
Lead	**14.4**	---	1.19	"	"	"	"	
CYN-110927-79-D (A11I428-04)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**43.2**	---	2.49	mg/kg dry	10	10/03/11 14:02	EPA 6020	
Lead	**12.9**	---	1.25	"	"	"	"	
CYN-110927-79-E (A11I428-05)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**39.6**	---	2.38	mg/kg dry	10	10/03/11 14:05	EPA 6020	
Lead	**4.96**	---	1.19	"	"	"	"	
CYN-110927-21-D (A11I428-07)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**38.5**	---	2.41	mg/kg dry	10	10/03/11 14:26	EPA 6020	
Lead	**38.4**	---	1.20	"	"	"	"	
CYN-110927-21-E (A11I428-08)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**44.7**	---	2.48	mg/kg dry	10	10/03/11 14:35	EPA 6020	
Lead	**14.8**	---	1.24	"	"	"	"	
CYN-110927-26-D (A11I428-10)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**57.1**	---	2.56	mg/kg dry	10	10/03/11 14:37	EPA 6020	
Lead	**207**	---	1.28	"	"	"	"	
CYN-110927-26-E (A11I428-11)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**48.7**	---	2.62	mg/kg dry	10	10/03/11 14:40	EPA 6020	
Lead	**5.16**	---	1.31	"	"	"	"	
CYN-110927-16-D (A11I428-14)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**40.9**	---	2.28	mg/kg dry	10	10/03/11 14:52	EPA 6020	
Lead	**3.92**	---	1.14	"	"	"	"	
CYN-110927-16-E (A11I428-15)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**49.4**	---	2.52	mg/kg dry	10	10/03/11 14:55	EPA 6020	
Lead	**4.54**	---	1.26	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110927-17-B (A11I428-17)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**39.9**	---	2.44	mg/kg dry	10	10/03/11 14:58	EPA 6020	
Lead	**4.23**	---	1.22	"	"	"	"	
CYN-110927-17-C (A11I428-18)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**46.9**	---	2.53	mg/kg dry	10	10/03/11 15:01	EPA 6020	
Lead	**3.83**	---	1.27	"	"	"	"	
CYN-110927-17-D (A11I428-19)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**38.4**	---	2.44	mg/kg dry	10	10/03/11 15:04	EPA 6020	
Lead	**3.88**	---	1.22	"	"	"	"	
CYN-110927-17-E (A11I428-20)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**36.7**	---	2.49	mg/kg dry	10	10/03/11 15:07	EPA 6020	
Lead	**4.08**	---	1.24	"	"	"	"	
CYN-110927-27-D (A11I428-22)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**49.9**	---	2.20	mg/kg dry	10	10/03/11 15:10	EPA 6020	
Lead	**10.8**	---	1.10	"	"	"	"	
CYN-110927-27-DD (A11I428-23)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**48.5**	---	2.26	mg/kg dry	10	10/03/11 15:13	EPA 6020	
Lead	**14.2**	---	1.13	"	"	"	"	
CYN-110927-27-E (A11I428-24)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**41.4**	---	2.28	mg/kg dry	10	10/03/11 15:16	EPA 6020	
Lead	**7.69**	---	1.14	"	"	"	"	
CYN-110927-58-B (A11I428-26)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**32.8**	---	2.44	mg/kg dry	10	10/03/11 15:27	EPA 6020	
Lead	**3.98**	---	1.22	"	"	"	"	
CYN-110927-58-C (A11I428-27)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**29.8**	---	2.43	mg/kg dry	10	10/03/11 15:30	EPA 6020	
Lead	**3.45**	---	1.21	"	"	"	"	
CYN-110927-19-B (A11I428-31)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**99.3**	---	2.50	mg/kg dry	10	10/03/11 15:33	EPA 6020	
Lead	**135**	---	1.25	"	"	"	"	
CYN-110927-19-C (A11I428-32)			**Matrix: Soil**		**Batch: 1110008**			
Chromium	**118**	---	2.32	mg/kg dry	10	10/03/11 15:45	EPA 6020	
Lead	**122**	---	1.16	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110927-19-D (A11I428-33)			**Matrix: Soil**		**Batch: 1110178**			
Chromium	**52.3**	---	2.39	mg/kg dry	10	10/13/11 14:40	EPA 6020	
Lead	**17.3**	---	1.19	"	"	"	"	
CYN-110927-19-E (A11I428-34)			**Matrix: Soil**		**Batch: 1110178**			
Chromium	**53.4**	---	2.57	mg/kg dry	10	10/13/11 14:43	EPA 6020	
Lead	**25.9**	---	1.28	"	"	"	"	
CYN-110928-88-S (A11I430-01)			**Matrix: Soil**		**Batch: 1109556**			
Chromium	**30.8**	---	4.59	mg/kg dry	10	10/03/11 12:56	EPA 6020	
Lead	**12.8**	---	2.29	"	"	"	"	
CYN-110928-89-S (A11I430-02)			**Matrix: Soil**		**Batch: 1109556**			
Chromium	**99.6**	---	2.85	mg/kg dry	10	10/03/11 12:59	EPA 6020	
Lead	**39.9**	---	1.43	"	"	"	"	
CYN-110928-82-A (A11I430-03)			**Matrix: Soil**		**Batch: 1109556**			
Chromium	**41.8**	---	2.30	mg/kg dry	10	10/03/11 13:02	EPA 6020	
Lead	**5.09**	---	1.15	"	"	"	"	
CYN-110928-82-AD (A11I430-04)			**Matrix: Soil**		**Batch: 1109556**			
Chromium	**41.9**	---	2.30	mg/kg dry	10	10/03/11 13:05	EPA 6020	
Lead	**4.81**	---	1.15	"	"	"	"	
CYN-110928-83-A (A11I430-07)			**Matrix: Soil**		**Batch: 1109556**			
Chromium	**51.8**	---	2.29	mg/kg dry	10	10/03/11 13:08	EPA 6020	
Lead	**5.55**	---	1.15	"	"	"	"	
CYN-110928-84-A (A11I430-10)			**Matrix: Soil**		**Batch: 1109556**			
Chromium	**42.5**	---	2.12	mg/kg dry	10	10/03/11 13:11	EPA 6020	
Lead	**9.24**	---	1.06	"	"	"	"	
CYN-110928-85-A (A11I430-13)			**Matrix: Soil**		**Batch: 1109556**			
Chromium	**64.3**	---	2.15	mg/kg dry	10	10/03/11 13:14	EPA 6020	
Lead	**12.3**	---	1.08	"	"	"	"	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-11-B (A11I030-12)			**Matrix: Soil**		**Batch: 1109280**			
Lead	**1.22**	---	0.0500	mg/L	5	09/19/11 17:24	EPA 1311/6020	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110830-77-A (A11H403-01)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**83.8**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-57-B (A11H403-04)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**83.2**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-75-A (A11H403-06)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**89.9**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-74-A (A11H403-09)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**86.0**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-52-B (A11H403-13)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**88.5**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-72-A (A11H403-15)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**89.5**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-73-A (A11H403-18)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**88.0**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-69-A (A11H403-21)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**87.3**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-47-B (A11H403-24)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**82.2**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-76-A (A11H403-26)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-15-B (A11H403-29)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**84.1**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-10-C (A11H403-32)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**97.9**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-05-B (A11H403-34)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**84.1**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-05-C (A11H403-35)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**79.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110830-04-B (A11H403-37)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**84.9**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110830-04-BD (A11H403-38)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**83.3**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110830-04-C (A11H403-39)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**84.1**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110830-02-C (A11H403-42)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**80.2**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-66-A (A11H404-01)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**88.3**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-66-B (A11H404-02)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**85.7**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110829-66-C (A11H404-03)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**83.4**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110829-43-B (A11H404-04)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**86.9**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-20-B (A11H404-06)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**88.0**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-20-C (A11H404-07)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**82.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110829-29-C (A11H404-09)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**80.0**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-67-A (A11H404-10)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**90.0**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-67-B (A11H404-11)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**84.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110829-67-C (A11H404-12)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**86.1**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110829-70-A (A11H404-13)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**86.1**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-70-B (A11H404-14)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**85.6**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110829-70-C (A11H404-15)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**86.3**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110829-71-A (A11H404-16)			**Matrix: Soil**		**Batch: 1109003**			

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110829-71-A (A11H404-16)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**88.0**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-71A-D (A11H404-17)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**87.9**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-65-A (A11H404-20)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-65-B (A11H404-21)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**86.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110829-65-C (A11H404-22)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**85.7**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110829-64-A (A11H404-23)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**89.5**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-22-B (A11H404-26)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**86.2**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-26-C (A11H404-29)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**83.1**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-27-C (A11H404-31)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**86.2**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-25-B (A11H404-32)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**82.2**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110829-59-B (A11H404-33)			**Matrix: Soil**		**Batch: 1109003**			
% Solids	**87.0**	---	1.00	% by Weight	1	09/02/11 12:09	Apex SOP	
CYN-110831-54-B (A11I030-02)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**85.6**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-54-C (A11I030-03)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**85.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110831-68-A (A11I030-04)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**85.2**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-68-AD (A11I030-05)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**84.9**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-68-B (A11I030-06)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**83.1**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-68-C (A11I030-07)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**81.0**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110831-09-B (A11I030-09)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**84.3**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-09-C (A11I030-10)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110831-11-B (A11I030-12)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**92.8**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-11-C (A11I030-13)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**86.1**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110831-21-C (A11I030-16)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**85.3**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-61-A (A11I030-17)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**88.2**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-61-B (A11I030-19)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**86.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110831-61-C (A11I030-20)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**84.7**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110831-62-A (A11I030-21)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**85.7**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-62-B (A11I030-22)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**83.0**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110831-62-C (A11I030-23)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**84.0**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110831-63-A (A11I030-24)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**81.8**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-63-B (A11I030-25)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.3**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110831-63-C (A11I030-26)			**Matrix: Soil**		**Batch: 1109299**			
% Solids	**81.4**	---	1.00	% by Weight	1	09/20/11 10:15	Apex SOP	
CYN-110831-39-B (A11I030-28)			**Matrix: Soil**		**Batch: 1109065**			

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-39-B (A11I030-28)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**82.4**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-39-C (A11I030-29)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**82.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110831-12-B (A11I030-31)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**83.4**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
CYN-110831-12-C (A11I030-32)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CYN-110926-11-C (A11I394-01)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**88.1**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-11-D (A11I394-02)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**86.5**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-11-E (A11I394-03)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**89.4**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-11-F (A11I394-04)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**85.5**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
CYN-110926-10-D (A11I394-05)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**85.2**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-10-E (A11I394-06)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**84.3**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-02-D (A11I394-08)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**80.7**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-02-E (A11I394-09)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**79.0**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-07-C (A11I394-12)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**84.5**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-07-D (A11I394-13)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**82.7**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-07-E (A11I394-14)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**84.8**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-78-A (A11I394-16)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**90.5**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110926-78-B (A11I394-17)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**87.7**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-78-C (A11I394-18)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**82.8**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-78-D (A11I394-19)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**86.3**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-78-E (A11I394-20)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**83.0**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-04-C (A11I394-22)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**82.4**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-04-D (A11I394-23)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**79.3**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-04-E (A11I394-24)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**83.3**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-04-F (A11I394-25)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**84.2**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
CYN-110926-81-A (A11I394-26)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**83.6**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-80-A (A11I394-28)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**84.2**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-86-A (A11I394-31)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**79.2**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110926-87-A (A11I394-33)			**Matrix: Soil**		**Batch: 1109472**			
% Solids	**85.2**	---	1.00	% by Weight	1	09/29/11 09:57	Apex SOP	
CYN-110927-79-C (A11I428-03)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**85.3**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-79-D (A11I428-04)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**84.8**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-79-E (A11I428-05)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**85.1**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-21-D (A11I428-07)			**Matrix: Soil**		**Batch: 1110069**			

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110927-21-D (A11I428-07)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**84.9**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-21-E (A11I428-08)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**82.0**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-26-D (A11I428-10)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**83.0**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-26-E (A11I428-11)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**82.3**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-16-D (A11I428-14)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**83.7**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-16-E (A11I428-15)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**82.1**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-17-B (A11I428-17)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**80.7**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-17-C (A11I428-18)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**80.3**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-17-D (A11I428-19)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**79.1**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-17-E (A11I428-20)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**79.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-27-D (A11I428-22)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**86.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-27-DD (A11I428-23)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**86.2**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-27-E (A11I428-24)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**85.7**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-58-B (A11I428-26)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**84.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-58-C (A11I428-27)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**82.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-19-B (A11I428-31)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**84.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110927-19-C (A11I428-32)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**82.9**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110927-19-D (A11I428-33)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**84.3**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
CYN-110927-19-E (A11I428-34)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**81.5**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
CYN-110928-88-S (A11I430-01)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**41.9**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110928-89-S (A11I430-02)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**74.4**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110928-82-A (A11I430-03)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**89.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110928-82-AD (A11I430-04)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**90.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110928-83-A (A11I430-07)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**85.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110928-84-A (A11I430-10)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**90.9**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
CYN-110928-85-A (A11I430-13)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**91.0**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109042 - EPA 3051A							**Soil**					
Blank (1109042-BLK1)					Prepared: 09/02/11 11:36		Analyzed: 09/02/11 16:50					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109042-BS1)					Prepared: 09/02/11 11:36		Analyzed: 09/02/11 16:53					
EPA 6020												
Chromium	47.6	---	2.00	mg/kg wet	10	50.0	---	95	80-120%	---	---	
Lead	47.9	---	1.00	"	"	"	---	96	"	---	---	
Matrix Spike (1109042-MS2)					Prepared: 09/02/11 11:36		Analyzed: 09/02/11 17:05					
QC Source Sample: CYN-110830-04-B (A11H403-37)												
EPA 6020												
Chromium	113	---	2.25	mg/kg dry	10	56.3	60.8	92	75-125%	---	---	
Lead	245	---	1.13	"	"	"	171	132	"	---	---	Q-01
Post Spike (1109042-PS1)					Prepared: 09/02/11 11:36		Analyzed: 09/07/11 14:25					
QC Source Sample: CYN-110830-04-B (A11H403-37)												
EPA 6020												
Lead	2330	---		ug/L	10	909	1400	102	80-120%		---	
Batch 1109091 - EPA 3051A							**Soil**					
Blank (1109091-BLK1)					Prepared: 09/07/11 10:10		Analyzed: 09/08/11 13:52					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109091-BS1)					Prepared: 09/07/11 10:10		Analyzed: 09/08/11 13:55					
EPA 6020												
Chromium	48.7	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Lead	48.6	---	1.00	"	"	"	---	97	"	---	---	
Duplicate (1109091-DUP1)					Prepared: 09/07/11 10:10		Analyzed: 09/08/11 14:24					
QC Source Sample: CYN-110829-43-B (A11H404-04)												
EPA 6020												
Chromium	**45.8**	---	2.59	mg/kg dry	10	---	39.4	---	---	15	40%	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109091 - EPA 3051A							**Soil**					
Duplicate (1109091-DUP1)					Prepared: 09/07/11 10:10		Analyzed: 09/08/11 14:24					
QC Source Sample: CYN-110829-43-B (A11H404-04)												
Lead	**6.03**	---	1.29	mg/kg dry	"	---	4.58	---	---	27	40%	
Matrix Spike (1109091-MS1)					Prepared: 09/07/11 10:10		Analyzed: 09/08/11 14:27					
QC Source Sample: CYN-110829-43-B (A11H404-04)												
EPA 6020												
Chromium	100	---	2.53	mg/kg dry	10	63.3	39.4	96	75-125%	---	---	
Lead	61.1	---	1.26	"	"	"	4.58	89	"	---	---	
Matrix Spike (1109091-MS2)					Prepared: 09/07/11 10:10		Analyzed: 09/08/11 15:30					
QC Source Sample: CYN-110829-59-B (A11H404-33)												
EPA 6020												
Chromium	104	---	2.59	mg/kg dry	10	64.9	42.8	94	75-125%	---	---	
Lead	63.0	---	1.30	"	"	"	3.45	92	"	---	---	

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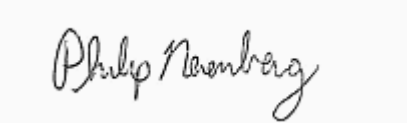

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109111 - EPA 3051A							**Soil**					
Blank (1109111-BLK1)					Prepared: 09/08/11 09:47		Analyzed: 09/12/11 12:52					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109111-BS1)					Prepared: 09/08/11 09:47		Analyzed: 09/12/11 12:55					
EPA 6020												
Chromium	50.9	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Lead	50.6	---	1.00	"	"	"	---	101	"	---	---	
Duplicate (1109111-DUP1)					Prepared: 09/08/11 09:47		Analyzed: 09/12/11 13:18					
QC Source Sample: CYN-110831-68-AD (A11I030-05)												
EPA 6020												
Chromium	**54.7**	---	2.25	mg/kg dry	10	---	60.5	---	---	10	40%	
Lead	**79.6**	---	1.13	"	"	---	53.8	---	---	39	40%	
Matrix Spike (1109111-MS1)					Prepared: 09/08/11 09:47		Analyzed: 09/12/11 13:21					
QC Source Sample: CYN-110831-68-AD (A11I030-05)												
EPA 6020												
Chromium	138	---	2.31	mg/kg dry	10	57.8	60.5	135	75-125%	---	---	Q-01
Lead	132	---	1.15	"	"	"	53.8	136	"	---	---	Q-01
Post Spike (1109111-PS1)					Prepared: 09/12/11 14:16		Analyzed: 09/12/11 14:31					
QC Source Sample: CYN-110831-68-AD (A11I030-05)												
EPA 6020												
Chromium	958	---		ug/L	10	476	513	93	80-120%		---	
Lead	927	---		"	"	"	456	99	"		---	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109259 - EPA 3051A							**Soil**					
Blank (1109259-BLK1)					Prepared: 09/15/11 15:16		Analyzed: 09/16/11 14:58					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109259-BS1)					Prepared: 09/15/11 15:16		Analyzed: 09/16/11 15:01					
EPA 6020												
Lead	43.4	---	1.00	mg/kg wet	10	50.0	---	87	80-120%	---	---	
LCS (1109259-BS2)					Prepared: 09/15/11 15:16		Analyzed: 09/19/11 12:39					
EPA 6020												
Chromium	46.8	---	2.00	mg/kg wet	10	50.0	---	93	80-120%	---	---	Q-16
Duplicate (1109259-DUP1)					Prepared: 09/15/11 15:16		Analyzed: 09/16/11 15:16					
QC Source Sample: CYN-110829-20-C (A11H404-07)												
EPA 6020												
Chromium	**37.5**	---	2.49	mg/kg dry	10	---	29.8	---	---	23	40%	
Lead	**25.7**	---	1.24	"	"	---	50.6	---	---	65	40%	Q-01
Matrix Spike (1109259-MS1)					Prepared: 09/15/11 15:16		Analyzed: 09/16/11 15:28					
QC Source Sample: CYN-110829-20-C (A11H404-07)												
EPA 6020												
Chromium	86.9	---	2.34	mg/kg dry	10	58.6	29.8	97	75-125%	---	---	
Lead	78.1	---	1.17	"	"	"	50.6	47	"	---	---	Q-01
Post Spike (1109259-PS1)					Prepared: 09/19/11 12:32		Analyzed: 09/19/11 12:58					
QC Source Sample: CYN-110829-20-C (A11H404-07)												
EPA 6020												
Lead	832	---		ug/L	10	476	384	94	80-120%		---	

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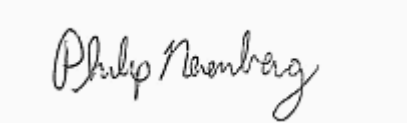

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109326 - EPA 3051A							**Soil**					
Blank (1109326-BLK1)					Prepared: 09/21/11 08:59		Analyzed: 09/22/11 10:35					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109326-BS1)					Prepared: 09/21/11 08:59		Analyzed: 09/22/11 10:38					
EPA 6020												
Chromium	48.4	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Lead	50.1	---	1.00	"	"	"	---	100	"	---	---	
Duplicate (1109326-DUP1)					Prepared: 09/21/11 08:59		Analyzed: 09/22/11 11:05					
QC Source Sample: CYN-110829-65-C (A11H404-22)												
EPA 6020												
Chromium	**39.6**	---	2.30	mg/kg dry	10	---	44.5	---	---	12	40%	
Lead	**3.69**	---	1.15	"	"	---	3.88	---	---	5	40%	
Matrix Spike (1109326-MS1)					Prepared: 09/21/11 08:59		Analyzed: 09/22/11 11:09					
QC Source Sample: CYN-110829-65-C (A11H404-22)												
EPA 6020												
Chromium	108	---	2.33	mg/kg dry	10	58.3	44.5	109	75-125%	---	---	
Lead	63.3	---	1.16	"	"	"	3.88	102	"	---	---	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109495 - EPA 3051A							**Soil**					
Blank (1109495-BLK1)					Prepared: 09/28/11 16:15		Analyzed: 09/29/11 12:36					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109495-BS1)					Prepared: 09/28/11 16:15		Analyzed: 09/29/11 11:51					
EPA 6020												
Chromium	51.0	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Lead	51.3	---	1.00	"	"	"	---	103	"	---	---	
Duplicate (1109495-DUP1)					Prepared: 09/28/11 16:15		Analyzed: 09/29/11 14:50					
QC Source Sample: CYN-110926-10-D (A11I394-05)												
EPA 6020												
Chromium	**26.8**	---	2.47	mg/kg dry	10	---	29.6	---	---	10	40%	
Lead	**9.70**	---	1.23	"	"	---	10.4	---	---	7	40%	
Matrix Spike (1109495-MS1)					Prepared: 09/28/11 16:15		Analyzed: 09/29/11 14:53					
QC Source Sample: CYN-110926-10-D (A11I394-05)												
EPA 6020												
Chromium	86.1	---	2.44	mg/kg dry	10	61.0	29.6	93	75-125%	---	---	
Lead	68.3	---	1.22	"	"	"	10.4	95	"	---	---	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109529 - EPA 3051A							**Soil**					
Blank (1109529-BLK1)					Prepared: 09/29/11 15:58		Analyzed: 09/30/11 14:04					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109529-BS1)					Prepared: 09/29/11 15:58		Analyzed: 09/30/11 14:07					
EPA 6020												
Chromium	49.6	---	2.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Lead	50.1	---	1.00	"	"	"	---	100	"	---	---	
Matrix Spike (1109529-MS2)					Prepared: 09/29/11 15:58		Analyzed: 09/30/11 15:09					
QC Source Sample: CYN-110926-80-A (A11I394-28)												
EPA 6020												
Chromium	94.5	---	2.32	mg/kg dry	10	58.1	47.1	82	75-125%	---	---	
Lead	75.2	---	1.16	"	"	"	13.8	106	"	---	---	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109556 - EPA 3051A							**Soil**					
Blank (1109556-BLK1)					Prepared: 09/30/11 15:37		Analyzed: 10/03/11 11:34					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109556-BS1)					Prepared: 09/30/11 15:37		Analyzed: 10/03/11 11:37					
EPA 6020												
Chromium	47.7	---	2.00	mg/kg wet	10	50.0	---	95	80-120%	---	---	
Lead	50.0	---	1.00	"	"	"	---	100	"	---	---	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110008 - EPA 3051A							**Soil**					
Blank (1110008-BLK1)					Prepared: 10/03/11 09:06		Analyzed: 10/03/11 13:54					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110008-BS1)					Prepared: 10/03/11 09:06		Analyzed: 10/03/11 13:56					
EPA 6020												
Chromium	48.2	---	2.00	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Lead	51.3	---	1.00	"	"	"	---	103	"	---	---	
Duplicate (1110008-DUP1)					Prepared: 10/03/11 09:06		Analyzed: 10/03/11 14:29					
QC Source Sample: CYN-110927-21-D (A11I428-07)												
EPA 6020												
Chromium	**57.7**	---	2.33	mg/kg dry	10	---	38.5	---	---	40	40%	
Lead	**133**	---	1.17	"	"	---	38.4	---	---	110	40%	Q-01
Matrix Spike (1110008-MS1)					Prepared: 10/03/11 09:06		Analyzed: 10/03/11 14:32					
QC Source Sample: CYN-110927-21-D (A11I428-07)												
EPA 6020												
Chromium	110	---	2.37	mg/kg dry	10	59.2	38.5	121	75-125%	---	---	
Lead	102	---	1.18	"	"	"	38.4	108	"	---	---	
Matrix Spike (1110008-MS2)					Prepared: 10/03/11 09:06		Analyzed: 10/03/11 15:57					
QC Source Sample: CYN-110927-19-C (A11I428-32)												
EPA 6020												
Chromium	181	---	2.60	mg/kg dry	10	65.0	118	97	75-125%	---	---	
Lead	153	---	1.30	"	"	"	122	47	"	---	---	Q-01
Post Spike (1110008-PS1)					Prepared: 10/03/11 09:06		Analyzed: 10/03/11 16:55					
QC Source Sample: CYN-110927-19-C (A11I428-32)												
EPA 6020												
Lead	2410	---		ug/L	10	1300	915	115	80-120%		---	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110136 - EPA 3051A							**Soil**					
Blank (1110136-BLK1)					Prepared: 10/07/11 14:07		Analyzed: 10/11/11 14:33					
EPA 6020												
Chromium	ND	---	4.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110136-BS1)					Prepared: 10/07/11 14:07		Analyzed: 10/11/11 14:36					
EPA 6020												
Chromium	49.1	---	4.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Lead	52.6	---	1.00	"	"	"	---	105	"	---	---	

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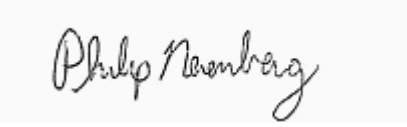

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110178 - EPA 3051A							**Soil**					
Blank (1110178-BLK1)					Prepared: 10/11/11 08:27		Analyzed: 10/13/11 14:46					
EPA 6020												
Chromium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110178-BS1)					Prepared: 10/11/11 08:27		Analyzed: 10/13/11 14:49					
EPA 6020												
Chromium	49.4	---	2.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Lead	49.6	---	1.00	"	"	"	---	99	"	---	---	

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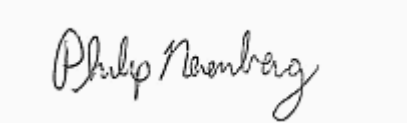

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109280 - EPA 1311/3015							**Soil**					
Blank (1109280-BLK1)					Prepared: 09/16/11 13:25		Analyzed: 09/19/11 17:18					
EPA 1311/6020												
Lead	ND	---	0.0500	mg/L	5	---	---	---	---	---	---	
LCS (1109280-BS1)					Prepared: 09/16/11 13:25		Analyzed: 09/19/11 17:21					
EPA 1311/6020												
Lead	2.47	---	0.0500	mg/L	5	2.50	---	99	80-120%	---	---	
Matrix Spike (1109280-MS1)					Prepared: 09/16/11 13:25		Analyzed: 09/19/11 17:27					
QC Source Sample: CYN-110831-11-B (A11I030-12)												
EPA 1311/6020												
Lead	3.75	---	0.0500	mg/L	5	2.50	1.22	101	50-150%	---	---	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109003 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109003-DUP1)					Prepared: 09/01/11 09:17		Analyzed: 09/02/11 12:09					
QC Source Sample: CYN-110829-26-C (A11H404-29)												
Apex SOP												
% Solids	**84.0**	---	1.00	% by Weight	1	---	83.1	---	---	1	20%	
Duplicate (1109003-DUP3)					Prepared: 09/01/11 09:17		Analyzed: 09/02/11 12:09					
QC Source Sample: CYN-110830-57-B (A11H403-04)												
Apex SOP												
% Solids	**83.9**	---	1.00	% by Weight	1	---	83.2	---	---	0.8	20%	
Duplicate (1109003-DUP4)					Prepared: 09/01/11 09:17		Analyzed: 09/02/11 12:09					
QC Source Sample: CYN-110830-72-A (A11H403-15)												
Apex SOP												
% Solids	**89.9**	---	1.00	% by Weight	1	---	89.5	---	---	0.4	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109065 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109065-DUP3)					Prepared: 09/06/11 09:59		Analyzed: 09/07/11 10:25					
QC Source Sample: CYN-110831-62-A (A11I030-21)												
Apex SOP												
% Solids	**84.2**	---	1.00	% by Weight	1	---	85.7	---	---	2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109250 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109250-DUP2)					Prepared: 09/15/11 13:22		Analyzed: 09/16/11 10:23					
QC Source Sample: CYN-110830-05-C (A11H403-35)												
Apex SOP												
% Solids	**80.9**	---	1.00	% by Weight	1	---	79.9	---	---	1	20%	
Duplicate (1109250-DUP3)					Prepared: 09/15/11 13:22		Analyzed: 09/16/11 10:23					
QC Source Sample: CYN-110830-04-C (A11H403-39)												
Apex SOP												
% Solids	**84.1**	---	1.00	% by Weight	1	---	84.1	---	---	0	20%	

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109250 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109250-DUP4)					Prepared: 09/15/11 13:22		Analyzed: 09/16/11 10:23					
QC Source Sample: CYN-110829-65-B (A11H404-21)												
Apex SOP												
% Solids	**86.2**	---	1.00	% by Weight	1	---	86.5	---	---	0.3	20%	
Duplicate (1109250-DUP5)					Prepared: 09/15/11 13:22		Analyzed: 09/16/11 10:23					
QC Source Sample: CYN-110831-11-C (A11I030-13)												
Apex SOP												
% Solids	**88.4**	---	1.00	% by Weight	1	---	86.1	---	---	3	20%	
Duplicate (1109250-DUP8)					Prepared: 09/15/11 13:22		Analyzed: 09/16/11 10:23					
QC Source Sample: CYN-110829-20-C (A11H404-07)												
Apex SOP												
% Solids	**83.0**	---	1.00	% by Weight	1	---	82.9	---	---	0.1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109299 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109299-DUP2)					Prepared: 09/19/11 11:29		Analyzed: 09/20/11 10:15					
QC Source Sample: CYN-110831-68-C (A11I030-07)												
Apex SOP												
% Solids	**81.5**	---	1.00	% by Weight	1	---	81.0	---	---	0.6	20%	
Duplicate (1109299-DUP3)					Prepared: 09/19/11 11:29		Analyzed: 09/20/11 10:15					
QC Source Sample: CYN-110829-67-C (A11H404-12)												
Apex SOP												
% Solids	**84.4**	---	1.00	% by Weight	1	---	86.1	---	---	2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109472 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109472-DUP6)					Prepared: 09/28/11 16:17		Analyzed: 09/29/11 09:57					
QC Source Sample: CYN-110926-11-D (A11I394-02)												
Apex SOP												

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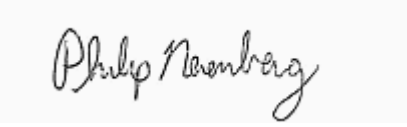

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109472 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109472-DUP6)					Prepared: 09/28/11 16:17		Analyzed: 09/29/11 09:57					
QC Source Sample: CYN-110926-11-D (A11I394-02)												
% Solids	**86.5**	---	1.00	% by Weight	1	---	86.5	---	---	0	20%	
Duplicate (1109472-DUP7)					Prepared: 09/28/11 16:17		Analyzed: 09/29/11 09:57					
QC Source Sample: CYN-110926-10-D (A11I394-05)												
Apex SOP												
% Solids	**85.0**	---	1.00	% by Weight	1	---	85.2	---	---	0.2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1110069 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1110069-DUP3)					Prepared: 10/05/11 10:31		Analyzed: 10/06/11 11:41					
QC Source Sample: CYN-110927-79-C (A11I428-03)												
Apex SOP												
% Solids	**85.8**	---	1.00	% by Weight	1	---	85.3	---	---	0.6	20%	
Duplicate (1110069-DUP4)					Prepared: 10/05/11 10:31		Analyzed: 10/06/11 11:41					
QC Source Sample: CYN-110928-85-A (A11I430-13)												
Apex SOP												
% Solids	**93.0**	---	1.00	% by Weight	1	---	91.0	---	---	2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1110096 - Total Solids (Dry Weight) **Soil**

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1109042							
A11H403-01	Soil	EPA 6020	08/30/11 10:27	09/02/11 11:36	0.5g/50mL	0.5g/50mL	1.00
A11H403-04	Soil	EPA 6020	08/30/11 11:31	09/02/11 11:36	0.5g/50mL	0.5g/50mL	1.00
A11H403-06	Soil	EPA 6020	08/30/11 14:35	09/02/11 11:36	0.502g/50mL	0.5g/50mL	1.00
A11H403-09	Soil	EPA 6020	08/30/11 15:12	09/02/11 11:36	0.48g/50mL	0.5g/50mL	1.04
A11H403-13	Soil	EPA 6020	08/30/11 15:47	09/02/11 11:36	0.482g/50mL	0.5g/50mL	1.04
A11H403-15	Soil	EPA 6020	08/30/11 09:10	09/02/11 11:36	0.52g/50mL	0.5g/50mL	0.96
A11H403-18	Soil	EPA 6020	08/30/11 09:44	09/02/11 11:36	0.516g/50mL	0.5g/50mL	0.97
A11H403-21	Soil	EPA 6020	08/30/11 09:30	09/02/11 11:36	0.493g/50mL	0.5g/50mL	1.01
A11H403-24	Soil	EPA 6020	08/30/11 10:00	09/02/11 11:36	0.52g/50mL	0.5g/50mL	0.96
A11H403-26	Soil	EPA 6020	08/30/11 10:39	09/02/11 11:36	0.492g/50mL	0.5g/50mL	1.02
A11H403-29	Soil	EPA 6020	08/30/11 11:27	09/02/11 11:36	0.49g/50mL	0.5g/50mL	1.02
A11H403-32	Soil	EPA 6020	08/30/11 12:13	09/02/11 11:36	0.502g/50mL	0.5g/50mL	1.00
A11H403-34	Soil	EPA 6020	08/30/11 14:50	09/02/11 11:36	0.517g/50mL	0.5g/50mL	0.97
A11H403-37	Soil	EPA 6020	08/30/11 15:40	09/02/11 11:36	0.529g/50mL	0.5g/50mL	0.95
Batch: 1109091							
A11H403-38	Soil	EPA 6020	08/30/11 15:40	09/07/11 10:10	0.494g/50mL	0.5g/50mL	1.01
A11H403-42	Soil	EPA 6020	08/30/11 16:27	09/07/11 10:10	0.458g/50mL	0.5g/50mL	1.09
A11H404-01	Soil	EPA 6020	08/29/11 09:50	09/07/11 10:10	0.529g/50mL	0.5g/50mL	0.95
A11H404-04	Soil	EPA 6020	08/29/11 10:32	09/07/11 10:10	0.53g/50mL	0.5g/50mL	0.94
A11H404-06	Soil	EPA 6020	08/29/11 11:39	09/07/11 10:10	0.499g/50mL	0.5g/50mL	1.00
A11H404-09	Soil	EPA 6020	08/29/11 12:37	09/07/11 10:10	0.469g/50mL	0.5g/50mL	1.07
A11H404-10	Soil	EPA 6020	08/29/11 14:39	09/07/11 10:10	0.484g/50mL	0.5g/50mL	1.03
A11H404-13	Soil	EPA 6020	08/29/11 15:15	09/07/11 10:10	0.486g/50mL	0.5g/50mL	1.03
A11H404-16	Soil	EPA 6020	08/29/11 15:52	09/07/11 10:10	0.436g/50mL	0.5g/50mL	1.15
A11H404-17	Soil	EPA 6020	08/29/11 15:52	09/07/11 10:10	0.438g/50mL	0.5g/50mL	1.14
A11H404-20	Soil	EPA 6020	08/29/11 10:01	09/07/11 10:10	0.451g/50mL	0.5g/50mL	1.11
A11H404-23	Soil	EPA 6020	08/29/11 10:55	09/07/11 10:10	0.513g/50mL	0.5g/50mL	0.98
A11H404-26	Soil	EPA 6020	08/29/11 11:30	09/07/11 10:10	0.487g/50mL	0.5g/50mL	1.03
A11H404-29	Soil	EPA 6020	08/29/11 12:21	09/07/11 10:10	0.481g/50mL	0.5g/50mL	1.04
A11H404-31	Soil	EPA 6020	08/29/11 14:46	09/07/11 10:10	0.478g/50mL	0.5g/50mL	1.05
A11H404-32	Soil	EPA 6020	08/29/11 15:15	09/07/11 10:10	0.443g/50mL	0.5g/50mL	1.13
A11H404-33	Soil	EPA 6020	08/29/11 15:42	09/07/11 10:10	0.473g/50mL	0.5g/50mL	1.06
Batch: 1109111							

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I030-02	Soil	EPA 6020	08/31/11 09:45	09/08/11 09:47	0.496g/50mL	0.5g/50mL	1.01
A11I030-04	Soil	EPA 6020	08/31/11 10:24	09/08/11 09:47	0.492g/50mL	0.5g/50mL	1.02
A11I030-05	Soil	EPA 6020	08/31/11 10:24	09/08/11 09:47	0.524g/50mL	0.5g/50mL	0.95
A11I030-09	Soil	EPA 6020	08/31/11 11:27	09/08/11 09:47	0.528g/50mL	0.5g/50mL	0.95
A11I030-12	Soil	EPA 6020	08/31/11 12:24	09/08/11 09:47	0.482g/50mL	0.5g/50mL	1.04
A11I030-16	Soil	EPA 6020	08/31/11 13:14	09/08/11 09:47	0.51g/50mL	0.5g/50mL	0.98
A11I030-17	Soil	EPA 6020	08/31/11 09:36	09/08/11 09:47	0.477g/50mL	0.5g/50mL	1.05
A11I030-21	Soil	EPA 6020	08/31/11 10:06	09/08/11 09:47	0.454g/50mL	0.5g/50mL	1.10
A11I030-24	Soil	EPA 6020	08/31/11 10:50	09/08/11 09:47	0.537g/50mL	0.5g/50mL	0.93
A11I030-28	Soil	EPA 6020	08/31/11 11:30	09/08/11 09:47	0.465g/50mL	0.5g/50mL	1.08
A11I030-31	Soil	EPA 6020	08/31/11 12:41	09/08/11 09:47	0.515g/50mL	0.5g/50mL	0.97
Batch: 1109259							
A11H403-35	Soil	EPA 6020	08/30/11 15:02	09/15/11 15:16	0.491g/50mL	0.5g/50mL	1.02
A11H403-39	Soil	EPA 6020	08/30/11 15:50	09/15/11 15:16	0.487g/50mL	0.5g/50mL	1.03
A11H404-02	Soil	EPA 6020	08/29/11 10:01	09/15/11 15:16	0.485g/50mL	0.5g/50mL	1.03
A11H404-07	Soil	EPA 6020	08/29/11 11:45	09/15/11 15:16	0.48g/50mL	0.5g/50mL	1.04
A11H404-11	Soil	EPA 6020	08/29/11 14:44	09/15/11 15:16	0.503g/50mL	0.5g/50mL	0.99
A11H404-14	Soil	EPA 6020	08/29/11 15:22	09/15/11 15:16	0.51g/50mL	0.5g/50mL	0.98
A11H404-21	Soil	EPA 6020	08/29/11 10:10	09/15/11 15:16	0.486g/50mL	0.5g/50mL	1.03
A11I030-03	Soil	EPA 6020	08/31/11 09:52	09/15/11 15:16	0.491g/50mL	0.5g/50mL	1.02
A11I030-06	Soil	EPA 6020	08/31/11 10:45	09/15/11 15:16	0.52g/50mL	0.5g/50mL	0.96
A11I030-10	Soil	EPA 6020	08/31/11 11:36	09/15/11 15:16	0.518g/50mL	0.5g/50mL	0.97
A11I030-13	Soil	EPA 6020	08/31/11 12:34	09/15/11 15:16	0.512g/50mL	0.5g/50mL	0.98
A11I030-19	Soil	EPA 6020	08/31/11 09:46	09/15/11 15:16	0.49g/50mL	0.5g/50mL	1.02
A11I030-22	Soil	EPA 6020	08/31/11 10:15	09/15/11 15:16	0.498g/50mL	0.5g/50mL	1.00
A11I030-25	Soil	EPA 6020	08/31/11 11:00	09/15/11 15:16	0.486g/50mL	0.5g/50mL	1.03
A11I030-29	Soil	EPA 6020	08/31/11 11:38	09/15/11 15:16	0.486g/50mL	0.5g/50mL	1.03
A11I030-32	Soil	EPA 6020	08/31/11 13:00	09/15/11 15:16	0.496g/50mL	0.5g/50mL	1.01
Batch: 1109326							
A11H404-03	Soil	EPA 6020	08/29/11 10:12	09/21/11 08:59	0.495g/50mL	0.5g/50mL	1.01
A11H404-12	Soil	EPA 6020	08/29/11 14:55	09/21/11 08:59	0.469g/50mL	0.5g/50mL	1.07
A11H404-15	Soil	EPA 6020	08/29/11 15:35	09/21/11 08:59	0.469g/50mL	0.5g/50mL	1.07
A11H404-22	Soil	EPA 6020	08/29/11 10:20	09/21/11 08:59	0.501g/50mL	0.5g/50mL	1.00
A11I030-07	Soil	EPA 6020	08/31/11 10:52	09/21/11 08:59	0.507g/50mL	0.5g/50mL	0.99

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I030-20	Soil	EPA 6020	08/31/11 09:56	09/21/11 08:59	0.477g/50mL	0.5g/50mL	1.05
A11I030-23	Soil	EPA 6020	08/31/11 10:28	09/21/11 08:59	0.523g/50mL	0.5g/50mL	0.96
A11I030-26	Soil	EPA 6020	08/31/11 11:15	09/21/11 08:59	0.508g/50mL	0.5g/50mL	0.98
Batch: 1109495							
A11I394-01	Soil	EPA 6020	09/26/11 09:30	09/28/11 16:15	0.512g/50mL	0.5g/50mL	0.98
A11I394-02	Soil	EPA 6020	09/26/11 09:50	09/28/11 16:15	0.456g/50mL	0.5g/50mL	1.10
A11I394-03	Soil	EPA 6020	09/26/11 10:25	09/28/11 16:15	0.473g/50mL	0.5g/50mL	1.06
A11I394-05	Soil	EPA 6020	09/26/11 09:55	09/28/11 16:15	0.505g/50mL	0.5g/50mL	0.99
A11I394-06	Soil	EPA 6020	09/26/11 10:10	09/28/11 16:15	0.517g/50mL	0.5g/50mL	0.97
A11I394-08	Soil	EPA 6020	09/26/11 11:50	09/28/11 16:15	0.505g/50mL	0.5g/50mL	0.99
A11I394-09	Soil	EPA 6020	09/26/11 11:54	09/28/11 16:15	0.483g/50mL	0.5g/50mL	1.04
A11I394-12	Soil	EPA 6020	09/26/11 13:10	09/28/11 16:15	0.522g/50mL	0.5g/50mL	0.96
A11I394-13	Soil	EPA 6020	09/26/11 13:15	09/28/11 16:15	0.518g/50mL	0.5g/50mL	0.97
A11I394-14	Soil	EPA 6020	09/26/11 13:22	09/28/11 16:15	0.496g/50mL	0.5g/50mL	1.01
A11I394-16	Soil	EPA 6020	09/26/11 11:33	09/28/11 16:15	0.52g/50mL	0.5g/50mL	0.96
A11I394-17	Soil	EPA 6020	09/26/11 13:39	09/28/11 16:15	0.502g/50mL	0.5g/50mL	1.00
A11I394-18	Soil	EPA 6020	09/26/11 13:43	09/28/11 16:15	0.492g/50mL	0.5g/50mL	1.02
A11I394-19	Soil	EPA 6020	09/26/11 13:49	09/28/11 16:15	0.48g/50mL	0.5g/50mL	1.04
A11I394-20	Soil	EPA 6020	09/26/11 13:55	09/28/11 16:15	0.462g/50mL	0.5g/50mL	1.08
Batch: 1109529							
A11I394-22	Soil	EPA 6020	09/26/11 14:23	09/29/11 15:58	0.486g/50mL	0.5g/50mL	1.03
A11I394-23	Soil	EPA 6020	09/26/11 14:33	09/29/11 15:58	0.495g/50mL	0.5g/50mL	1.01
A11I394-24	Soil	EPA 6020	09/26/11 14:37	09/29/11 15:58	0.478g/50mL	0.5g/50mL	1.05
A11I394-26	Soil	EPA 6020	09/26/11 14:55	09/29/11 15:58	0.495g/50mL	0.5g/50mL	1.01
A11I394-28	Soil	EPA 6020	09/26/11 15:07	09/29/11 15:58	0.506g/50mL	0.5g/50mL	0.99
A11I394-31	Soil	EPA 6020	09/26/11 15:40	09/29/11 15:58	0.478g/50mL	0.5g/50mL	1.05
A11I394-33	Soil	EPA 6020	09/26/11 15:27	09/29/11 15:58	0.499g/50mL	0.5g/50mL	1.00
Batch: 1109556							
A11I430-01	Soil	EPA 6020	09/28/11 09:30	09/30/11 15:37	0.52g/50mL	0.5g/50mL	0.96
A11I430-02	Soil	EPA 6020	09/28/11 09:47	09/30/11 15:37	0.471g/50mL	0.5g/50mL	1.06
A11I430-03	Soil	EPA 6020	09/28/11 10:30	09/30/11 15:37	0.485g/50mL	0.5g/50mL	1.03
A11I430-04	Soil	EPA 6020	09/28/11 10:30	09/30/11 15:37	0.48g/50mL	0.5g/50mL	1.04
A11I430-07	Soil	EPA 6020	09/28/11 10:14	09/30/11 15:37	0.51g/50mL	0.5g/50mL	0.98
A11I430-10	Soil	EPA 6020	09/28/11 11:00	09/30/11 15:37	0.518g/50mL	0.5g/50mL	0.97

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I430-13	Soil	EPA 6020	09/28/11 11:23	09/30/11 15:37	0.51g/50mL	0.5g/50mL	0.98
Batch: 1110008							
A11I428-03	Soil	EPA 6020	09/27/11 10:00	10/03/11 09:06	0.492g/50mL	0.5g/50mL	1.02
A11I428-04	Soil	EPA 6020	09/27/11 10:03	10/03/11 09:06	0.473g/50mL	0.5g/50mL	1.06
A11I428-05	Soil	EPA 6020	09/27/11 10:06	10/03/11 09:06	0.493g/50mL	0.5g/50mL	1.01
A11I428-07	Soil	EPA 6020	09/27/11 10:27	10/03/11 09:06	0.489g/50mL	0.5g/50mL	1.02
A11I428-08	Soil	EPA 6020	09/27/11 10:33	10/03/11 09:06	0.492g/50mL	0.5g/50mL	1.02
A11I428-10	Soil	EPA 6020	09/27/11 11:12	10/03/11 09:06	0.47g/50mL	0.5g/50mL	1.06
A11I428-11	Soil	EPA 6020	09/27/11 11:20	10/03/11 09:06	0.464g/50mL	0.5g/50mL	1.08
A11I428-14	Soil	EPA 6020	09/27/11 11:50	10/03/11 09:06	0.524g/50mL	0.5g/50mL	0.95
A11I428-15	Soil	EPA 6020	09/27/11 11:55	10/03/11 09:06	0.483g/50mL	0.5g/50mL	1.04
A11I428-17	Soil	EPA 6020	09/27/11 12:18	10/03/11 09:06	0.508g/50mL	0.5g/50mL	0.98
A11I428-18	Soil	EPA 6020	09/27/11 12:22	10/03/11 09:06	0.492g/50mL	0.5g/50mL	1.02
A11I428-19	Soil	EPA 6020	09/27/11 12:25	10/03/11 09:06	0.518g/50mL	0.5g/50mL	0.97
A11I428-20	Soil	EPA 6020	09/27/11 12:28	10/03/11 09:06	0.505g/50mL	0.5g/50mL	0.99
A11I428-22	Soil	EPA 6020	09/27/11 14:00	10/03/11 09:06	0.524g/50mL	0.5g/50mL	0.95
A11I428-23	Soil	EPA 6020	09/27/11 14:00	10/03/11 09:06	0.514g/50mL	0.5g/50mL	0.97
A11I428-24	Soil	EPA 6020	09/27/11 14:04	10/03/11 09:06	0.512g/50mL	0.5g/50mL	0.98
A11I428-26	Soil	EPA 6020	09/27/11 14:28	10/03/11 09:06	0.484g/50mL	0.5g/50mL	1.03
A11I428-27	Soil	EPA 6020	09/27/11 14:37	10/03/11 09:06	0.499g/50mL	0.5g/50mL	1.00
A11I428-31	Soil	EPA 6020	09/27/11 15:03	10/03/11 09:06	0.473g/50mL	0.5g/50mL	1.06
A11I428-32	Soil	EPA 6020	09/27/11 15:07	10/03/11 09:06	0.519g/50mL	0.5g/50mL	0.96
Batch: 1110136							
A11I394-04	Soil	EPA 6020	09/26/11 11:15	10/07/11 14:07	0.48g/50mL	0.5g/50mL	1.04
A11I394-25	Soil	EPA 6020	09/26/11 14:45	10/07/11 14:07	0.491g/50mL	0.5g/50mL	1.02
Batch: 1110178							
A11I428-33	Soil	EPA 6020	09/27/11 15:11	10/11/11 08:27	0.497g/50mL	0.5g/50mL	1.01
A11I428-34	Soil	EPA 6020	09/27/11 15:13	10/11/11 08:27	0.478g/50mL	0.5g/50mL	1.05

TCLP Metals by EPA 6020 (ICPMS)

Prep: EPA 1311/3015

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1109280							
A11I030-12	Soil	EPA 1311/6020	08/31/11 12:24	09/16/11 13:25	5mL/50mL	5mL/50mL	1.00

Apex Laboratories

Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

SAMPLE PREPARATION INFORMATION

Apex Laboratories

Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

Notes and Definitions

Qualifiers:

Q-01	Percent recovery and/or RPD is outside acceptance limits.
Q-16	Reanalysis of an original Batch QC sample.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

A11H403

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Environmental Consultants
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(503) 796-0717 • Fax (503) 227-2229

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Uhlmann/Dan Klein

Liquid with Sediment Sample: ____ Test Filtrate ____ Test Sediment ____ Test Both
Multi-Phase Sample: ____ Test One (which) ____ Test Separately ____ Shake

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110833-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA Method 6010)	RUSH	Remarks
1	77-A	30-Aug-11	1027	0.0 - 0.5	x			1	X		
2	77-B	30-Aug-11	1041	0.5 - 1.0	x			1			
3	77-C	30-Aug-11	1048	1.0 - 1.5	x			1			
4	57-B	30-Aug-11	1131	0.5 - 1.0	x			1	X		
5	57-C	30-Aug-11	1153	1.0 - 1.5	x			1			
6	75-A	30-Aug-11	1435	0.0 - 0.5	x			1	X		
7	75-B	30-Aug-11	1445	0.5 - 1.0	x			1			
8	75-C	30-Aug-11	1449	1.0 - 1.5	x			1			
9	74-A	30-Aug-11	1512	0.0 - 0.5	x			1	X		
10	74-B	30-Aug-11	1517	0.5 - 1.0	x			1			
11	74-C	30-Aug-11	1523	1.0 - 1.5	x			1			
12	52-A	30-Aug-11	1540	0.0 - 0.5	x			1			
13	52-B	30-Aug-11	1547	0.5 - 1.0	x			1	X		
14	52-C	30-Aug-11	1555	1.0 - 1.5	x			1			
15	72-A	30-Aug-11	910	0.0 - 0.5	x			1	X		
16	72-B	30-Aug-11	918	0.5 - 1.0	x			1			
17	72-C	30-Aug-11	925	1.0 - 1.5	x			1			
18	73-A	30-Aug-11	944	0.0 - 0.5	x			1	X		
19	73-B	30-Aug-11	957	0.5 - 1.0	x			1			
20	73-C	30-Aug-11	1007	1.0 - 1.5	x			1			
21	69-A	30-Aug-11	930	0.0 - 0.5	x			1	X		
22	69-B	30-Aug-11	936	0.5 - 1.0	x			1			
23	69-C	30-Aug-11	941	1.0 - 1.5	x			1			
24	47-B	30-Aug-11	1000	0.5 - 1.0	x			1	X		

Relinquished by	Company	Date	Time	Received by	Company
RJE B. Ede	HAI	8/31/11	1203	Jennifer Gotta	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:35

A11H404

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Urbizana-Clair Kerin

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Shake

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110839-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analyses to be Performed: Lead, Chromium (EPA Method 6010)	RUSH	Remarks
1	55-A	29-Aug-11	950	0 - 0.5	x			1	X		
2	55-B	29-Aug-11	1001	0.5 - 1.0	x			1			
3	55-C	29-Aug-11	1012	1.0 - 1.5	x			1			
4	43-B	29-Aug-11	1032	0.5 - 1.0	x			1	X		
5	43-C	29-Aug-11	1056	1.0 - 1.5	x			1			
6	20-B	29-Aug-11	1130	0.5 - 1.0	x			1	X		
7	20-C	29-Aug-11	1145	1.0 - 1.5	x			1			
8	29-B	29-Aug-11	1215	0.5 - 1.0	x			1			
9	29-C	29-Aug-11	1237	1.0 - 1.3	x			1	X		
10	67-A	29-Aug-11	1430	0 - 0.0	x			1	X		
11	67-B	29-Aug-11	1444	0.5 - 1.0	x			1			
12	67-C	29-Aug-11	1455	1.0 - 1.5	x			1			
13	70-A	29-Aug-11	1515	0 - 0.0	x			1	X		
14	70-B	29-Aug-11	1522	0.5 - 1.0	x			1			
15	70-C	29-Aug-11	1535	1.0 - 1.5	x			1			
16	71-A	29-Aug-11	1552	0 - 0.0	x			1	X		
17	71A-D	29-Aug-11	1552	0 - 0.0	x			1	X		
18	71-B	29-Aug-11	1557	0.5 - 1.0	x			1			
19	71-C	29-Aug-11	1517	1.0 - 1.5	x			1			
20	65-A	29-Aug-11	1001	0 - 0.0	x			1	X		
21	65-B	29-Aug-11	1010	0.5 - 1.0	x			1			
22	65-C	29-Aug-11	1020	1.0 - 1.5	x			1			
23	64-A	29-Aug-11	1050	0 - 0.0	x			1	X		
24	64-B	29-Aug-11	1105	0.5 - 1.0	x			1			
25	64-C	29-Aug-11	1111	1.0 - 1.5	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Rob A. Ede	HAI	9/31/11	1003	[illegible]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:35

A11I030

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2220

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Uhlfelder-Clair Kelin

Liquid with Sediment Sample: Test Filters / Test Sediment / Test Both
Multi-Phase Sample: Test One (where) / Test Separately / Grab

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110831-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domins; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA Method 6010)	Rush	Remarks
1	54-A	31-Aug-11	930	0.0 - 0.5' bgs	x			1			
2	54-B	31-Aug-11	945	0.5 - 1.0' bgs	x			1	X		
3	54-C	31-Aug-11	952	1.0 - 1.5' bgs	x			1			
4	55-A	31-Aug-11	1024	0.0 - 0.5' bgs	x			1	X		
5	55-AD	31-Aug-11	1024	0.0 - 0.5' bgs	x			1	X		
6	55-B	31-Aug-11	1045	0.5 - 1.0' bgs	x			1			
7	55-C	31-Aug-11	1052	1.0 - 1.5' bgs	x			1			
8	09-A	31-Aug-11	1112	0.0 - 0.5' bgs	x			1			
9	09-B	31-Aug-11	1127	0.5 - 1.0' bgs	x			1	X		
10	09-C	31-Aug-11	1139	1.0 - 1.5' bgs	x			1			
11	11-A	31-Aug-11	1205	0.0 - 0.5' bgs	x			1			
12	11-B	31-Aug-11	1224	0.5 - 1.0' bgs	x			1	X		
13	11-C	31-Aug-11	1234	1.0 - 1.5' bgs	x			1			
14	21-A	31-Aug-11	1258	0.0 - 0.5' bgs	x			1			
15	21-B	31-Aug-11	1309	0.5 - 1.0' bgs	x			1			
16	21-C	31-Aug-11	1314	1.0 - 1.5' bgs	x			1	X		
17	61-A	31-Aug-11	936	0.0 - 0.5' bgs	x			1	X		
18	61-AD	31-Aug-11	936	0.0 - 0.5' bgs	x			1			
19	61-B	31-Aug-11	946	0.5 - 1.0' bgs	x			1			
20	61-C	31-Aug-11	956	1.0 - 1.5' bgs	x			1			
21	62-A	31-Aug-11	1009	0.0 - 0.5' bgs	x			1	X		
22	62-B	31-Aug-11	1015	0.5 - 1.0' bgs	x			1			
23	62-C	31-Aug-11	1020	1.0 - 1.5' bgs	x			1			
24	63-A	31-Aug-11	1050	0.0 - 0.5' bgs	x			1	X		
25	63-B	31-Aug-11	1100	0.5 - 1.0' bgs	x			1			
26	63-C	31-Aug-11	1115	1.0 - 1.5' bgs	x			1			
27	39-A	31-Aug-11	1125	0.0 - 0.5' bgs	x			1			
28	39-B	31-Aug-11	1130	0.5 - 1.0' bgs	x			1	X		
29	39-C	31-Aug-11	1138	1.0 - 1.5' bgs	x			1			
30	12-A	31-Aug-11	1220	0.0 - 0.5' bgs	x			1			
31	12-B	31-Aug-11	1241	0.5 - 1.0' bgs	x			1	X		
32	12-C	31-Aug-11	1300	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
RAB. Ede	HAF	9/2/11	1040		APEX
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:35

A11I3914

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-9717 • Fax (503) 227-3309

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Jane Dyer Kerin

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110926-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA, Method 6010)	RUSH	Remarks
1	11-C	26-Sep-11	9:33	1-1.5'	x			1	X		
2	11-D	26-Sep-11	9:50	1.5-2'	x			1	X		
3	11-E	26-Sep-11	10:25	2-2.5'	x			1	X		
4	11-F	26-Sep-11	11:15	2.5-3'	x			1			
5	10-D	26-Sep-11	9:55	1.5-2'	x			1	X		
6	10-E	26-Sep-11	10:10	2-2.5'	x			1	X		
7	10-F	26-Sep-11	10:14	2.5-3'	x			1			
8	02-D	26-Sep-11	11:50	1.5-2'	x			1	X		
9	02-E	26-Sep-11	11:54	2-2.5'	x			1	X		
10	07-B	26-Sep-11	12:10	0.5-1'	x			1			
11	07-BD	26-Sep-11	12:10	0.5-1'	x			1			
12	07-C	26-Sep-11	13:10	1-1.5'	x			1	X		
13	07-D	26-Sep-11	13:15	1.5-2'	x			1	X		
14	07-E	26-Sep-11	13:22	2-2.5'	x			1	X		
15	07-F	26-Sep-11	13:30	2.5-3'	x			1			
16	78-A	26-Sep-11	11:33	0-0.5'	x			1	X		
17	78-B	26-Sep-11	13:33	0.5-1'	x			1	X		
18	78-C	26-Sep-11	13:43	1-1.5'	x			1	X		
19	78-D	26-Sep-11	13:49	1.5-2'	x			1	X		
20	78-E	26-Sep-11	13:55	2-2.5'	x			1	X		
21	78-F	26-Sep-11	13:59	2.5-3'	x			1			
22	04-C	26-Sep-11	14:23	1-1.5'	x			1	X		
23	04-D	26-Sep-11	14:33	1.5-2'	x			1	X		
24	04-E	26-Sep-11	14:37	2-2.5'	x			1	X		
25	04-F	26-Sep-11	14:45	2.5-3'	x			1			
26	81-A	26-Sep-11	14:55	0-0.5'	x			1	X		
27	81-B	26-Sep-11	15:01	0.5-1'	x			1			
28	80-A	26-Sep-11	15:07	0-0.5'	X			1	X		
29	80-B	26-Sep-11	15:15	0.5-1'	X			1			
30	80-BD	26-Sep-11	15:15	0.5-1'	X			1			
31	66-A	26-Sep-11	15:40	0-0.5'	X			1	X		
32	66-B	26-Sep-11	15:45	0.5-1'	X			1			
33	67-A	26-Sep-11	15:27	0-0.5	X			1	X		
34	67-B	26-Sep-11	15:27	0.5-1	X			1			

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	HAI	9/28/11	1030	Jennifer Sith	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:35

A11I428

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 795-0317 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Edo
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Jane-Clair Kern

Liquid with Sediment Sample: Test Water / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Shake

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110927-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Edo

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA Method 6010)	RUSH	Remarks
1	19-A	27-Sep-11	9:53		X			1			
2	19-B	27-Sep-11	9:56		X			1			
3	19-C	27-Sep-11	10:00		X			1	X		
4	19-D	27-Sep-11	10:03		X			1	X		
5	19-E	27-Sep-11	10:06		X			1	X		
6	19-F	27-Sep-11	10:10		X			1			
7	21-D	27-Sep-11	10:27		X			1	X		
8	21-E	27-Sep-11	10:33		X			1	X		
9	21-F	27-Sep-11	10:40		X			1			
10	26-D	27-Sep-11	11:12		X			1	X		
11	26-E	27-Sep-11	11:23		X			1	X		
12	26-F	27-Sep-11	11:28		X			1			
13	16-C	27-Sep-11	11:45		X			1			
14	16-D	27-Sep-11	11:50		X			1	X		
15	16-E	27-Sep-11	11:55		X			1	X		
16	16-F	27-Sep-11	12:00		X			1			
17	17-B	27-Sep-11	12:18		X			1	X		
18	17-C	27-Sep-11	12:22		X			1	X		
19	17-D	27-Sep-11	12:25		X			1	X		
20	17-E	27-Sep-11	12:28		X			1	X		
21	17-F	27-Sep-11	12:33		X			1			
22	27-D	27-Sep-11	14:00		X			1	X		
23	27-DD	27-Sep-11	14:00		X			1	X		
24	27-E	27-Sep-11	14:04		X			1	X		
25	27-F	27-Sep-11	14:15		X			1			
26	58-B	27-Sep-11	14:23		X			1	X		
27	58-C	27-Sep-11	14:37		X			1	X		
28	58-D	27-Sep-11	14:40		X			1			
29	58-E	27-Sep-11	14:44		X			1			
30	58-F	27-Sep-11	14:47		X			1			
31	19-B	27-Sep-11	15:03		X			1	X		
32	19-C	27-Sep-11	15:07		X			1	X		
33	19-D	27-Sep-11	15:11		X			1			
34	19-E	27-Sep-11	15:13		X			1			
35	19-F	27-Sep-11	15:17		X			1			

Relinquished by	Company	Date	Time	Received by	Company
Rob B. Edo	HAI	9/29/11	1317	[illegible]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

AHI429
AHI430

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 799-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Jane-Clair Kerin

Liquid with Sediment Sample — Test Whole / Test Sediment / Test Bulk
Multi-Phase Sample — Test One (vehicle) / Test Separately / Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110928-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA Method 6010)	RUSH	Remarks
	88-S	28-Sep-11	9:30		X			1	X		
	89-S	28-Sep-11	9:47		X			1	X		
	82-A	28-Sep-11	10:30		X			1	X		
	82-AD	28-Sep-11	10:30		X			1	X		
	82-B	28-Sep-11	10:35		X			1			
	82-C	28-Sep-11	10:46		X			1			
	83-A	28-Sep-11	10:14		X			1	X		
	83-B	28-Sep-11	10:18		X			1			
	83-C	28-Sep-11	10:22		X			1			
	84-A	28-Sep-11	11:00		X			1	X		
	84-B	28-Sep-11	11:05		X			1			
	84-C	28-Sep-11	11:08		X			1			
	85-A	28-Sep-11	11:23		X			1	X		
	85-B	28-Sep-11	11:26		X			1			
	85-C	28-Sep-11	11:30		X			1			

Relinquished by	Company	Date	Time	Received by	Company
Rob B. Ede	AHI	9/29/11	1317	[illegible]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

A11H403.

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2289

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Eda
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Uhlmann-Clair Kehn

Liquid with Sediment Sample: ____ Test Filtrate ____ Test Sediment ____ Test Both
Multi-Phase Sample: ____ Test Dissolved ____ Test Separately ____ Shake

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110830-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Eda

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analyses to be Performed: Lead, Chromium (EPA Method 6010)	RUSH	Remarks
25	47-C	30-Aug-11	1007	1.0 - 1.5	x			1			
26	76-A	30-Aug-11	1039	0.0 - 0.5	x			1	X		
27	76-B	30-Aug-11	1045	0.5 - 1.0	x			1			
28	76-C	30-Aug-11	154	1.0 - 1.5	x			1			
29	15-B	30-Aug-11	1127	0.5 - 1.0	x			1	X		
30	15-C	30-Aug-11	1141	1.0 - 1.5	x			1			
31	10-B	30-Aug-11	1207	0.5 - 1.0	x			1			
32	10-C	30-Aug-11	1213	1.0 - 1.5	x			1	X		
33	05-A	30-Aug-11	1442	0.0 - 0.5	x			1			
34	05-B	30-Aug-11	1450	0.5 - 1.0	x			1	X		
35	05-C	30-Aug-11	1502	1.0 - 1.5	x			1			
36	04-A	30-Aug-11	1529	0.0 - 0.5	x			1			
37	04-B	30-Aug-11	1540	0.5 - 1.0	x			1	X		
38	04-BD	30-Aug-11	1545	0.5 - 1.0	x			1	X		
39	04-C	30-Aug-11	1550	1.0 - 1.5	x			1			
40	52-A	30-Aug-11	1610	0.0 - 0.5	x			1			
41	52-B	30-Aug-11	1621	0.5 - 1.0	x			1			
42	52-C	30-Aug-11	1627	1.0 - 1.5	x			1			

Relinquished by	Company	Date	Time	Received by	Company
RS D. Sc	A+1	8/31/11	1003	[illegible]	[illegible]
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:35

A11H404

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2300

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Uhlenkamp-Clair Kerns

Liquid with Sediment Sample — Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample — Test One (whole) / Test Separately / Grab

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110829-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina;Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analyses to be Performed: Lead, Chromium (EPA Method 6010)	RUSH	Remarks
26	22-B	29-Aug-11	1130	0.5 - 1.0	X			1	X		
27	22-C	29-Aug-11	1130	1.0 - 1.5	X			1			
28	26-B	29-Aug-11	1210	0.5 - 1.0	X			1			
29	26-C	29-Aug-11	1221	1.0 - 1.5	X			1	X		
30	27-B	29-Aug-11	1435	0.5 - 1.0	X			1			
31	27-C	29-Aug-11	1445	1.0 - 1.5	X			1	X		
32	33-B	29-Aug-11	1515	0.5 - 1.0	X			1	X		
33	33-B	29-Aug-11	1524	0.5 - 1.0	X			1	X		
34	99-BD	29-Aug-11	1524	0.5 - 1.0	X			1			
35	99-C	29-Aug-11	1600	1.0 - 1.5	X			1			

Relinquished by	Company	Date	Time	Received by	Company
Rob A. Ede	AAI	8/31/11	1203	[signature]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

Ammended 9/1/11
A114403.

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW 6th Avenue, Suite 203 • Portland OR 97209
(503) 223-0717 • Fax (503) 227-3235

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Bob Bale
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben McClean, Bob Bale

Liquid with Sediment Sample — Test Place: ____ Test Delivered: ____ Test Date: ____ Test Methods: ____ Date: ____
Multi-Phase Sample — Fire Dangerous: ____ Test Methods: ____ Date: ____

Samples Received at HC (Y or N): ____
Appropriate Containers Used (Y or N): ____
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYW-110330-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE attn: Ms. Brandy Doerfler; Results to A. Leritz, R. Bale

Analysis to be Performed

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA Method 6020)						Remarks
	47-C	30-Aug-11	1007	1.0 - 1.5	x			1							
	76-A	30-Aug-11	1039	0.0 - 0.5	x			1	X						
	76-B	30-Aug-11	1045	0.5 - 1.0	x			1							
	76-C	30-Aug-11	1051	1.0 - 1.5	x			1							
	15-B	30-Aug-11	1121	0.5 - 1.0	x			1	X						
	15-C	30-Aug-11	1141	1.5 - 1.5	x			1							
	10-B	30-Aug-11	1231	0.5 - 1.0	x			1							
	10-C	30-Aug-11	1233	1.5 - 1.5	x			1	X						
	85-A	30-Aug-11	1447	0.0 - 0.5	x			1							
	85-B	30-Aug-11	1450	0.5 - 1.0	x			1	X						
	85-C	30-Aug-11	1502	1.0 - 1.5	x			1							
	84-A	30-Aug-11	1520	0.0 - 0.5	x			1							
	84-B	30-Aug-11	1540	0.5 - 1.0	x			1	X						
	84-B3	30-Aug-11	1545	0.5 - 1.0	x			1	X						
	84-C	30-Aug-11	1550	1.0 - 1.5	x			1							
02A	[illegible]	30-Aug-11	1610	0.0 - 0.5	x			1							
02B	[illegible]	30-Aug-11	1621	0.5 - 1.0	x			1							
02-C	[illegible]	30-Aug-11	1627	1.0 - 1.5	x			1	X	Added 9/1/11					

Relinquished by	Company	Date	Time	Received by	Company
RJB B. St	A+I	8/31/11	1:03	[signature]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:35

Amended 9/1/11
A11 4404

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 765-0117 • Fax (503) 797-2506

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Bob Ede
Project No.: 7985
Project Name: PGE – Canyon Creek Trestle
Collected by: Ben Mahlum-Chris Nunn

Liquid with Sediment Sample — Test Fluids / Test Sediment / Test Both
Multi-Phase Sample — Test as a whole / Test Separately / Grab

Sample Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110828-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Priority as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Dowling; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA Method 6010)								Remarks
	22-B	29-Aug-11	1133	0.5 - 1.0	X			1	X								
	22-C	29-Aug-11	1139	1.0 - 1.5	X			1									
	35-B	29-Aug-11	1215	0.5 - 1.0	X			1									
	35-C	29-Aug-11	1221	1.0 - 1.5	X			1	X								
	37-B	29-Aug-11	1435	0.5 - 1.0	X			1									
	37-C	29-Aug-11	1445	1.0 - 1.5	X			1	X								
	39-B	29-Aug-11	1515	0.5 - 1.0	X			1	X								
	39-C	29-Aug-11	1524 1512	0.5 - 1.0	X			1	X								
	39-BD	29-Aug-11	1524 1512	0.5 - 1.0	X			1									
	39-D	29-Aug-11	1600	1.0 - 1.5	X			1									

Relinquished by	Company	Date	Time	Received by	Company
RAE A. Ede	HAI	8/31/11	1605	Philip Nerenberg	Apex

Philip Nerenberg

Philip Nerenberg, Lab Director

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CERTIFICATE OF ANALYSIS

Client:	Apex Laboratories 12232 SW Garden Place Tigard, OR 97223	**Report Date:**	11/23/11 16:31
		Received Date:	11/03/11 11:00
		Turn Around:	Normal
Attention:	Philip Nerenberg	**Work Order #:**	1K03036
Phone:	(503) 718-2323		
Fax:	(503) 718-0333		
		Client Project:	A11I428

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

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Dear Philip Nerenberg :

Enclosed are the results of analyses for samples received 11/03/11 11:00 with the Chain of Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Hai Van Nguyen
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03036
Project ID: A11I428

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CYN-110927-19-C	Client	A11I428-32	1K03036-01	Soil	09/27/11 15:07

ANALYSES

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium by IC

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03036
Project ID: A11I428

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:31

1K03036-01 CYN-110927-19-C

Sampled: 09/27/11 15:07 **Sampled By:** Client **Matrix:** Soil

Sample Note: A11I428-32

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: EPA 160.3M Batch: W1K0758 Prepared: 11/18/11 11:49 Analyzed: 11/18/11 16:32 Analyst: apa

Analyte	Result	MDL	MRL	Units	Dilution	Qualifier
% Solids	**85.2**		0.100	% by Volume	1	O-14

Hexavalent Chromium by IC

Method: EPA 7199 Batch: W1K0192 Prepared: 11/11/11 14:36 Analyzed: 11/22/11 15:36 Analyst: mac

Analyte	Result	MDL	MRL	Units	Dilution	Qualifier
Chromium 6+	**1.6**	0.15	0.47	mg/kg dry	1	O-14

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03036
Project ID: A11I428

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:31

QUALITY CONTROL SECTION

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03036
Project ID: A11I428

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:31

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W1K0758 - EPA 160.3M

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Duplicate (W1K0758-DUP1)	**Source: 1K03036-01**			Analyzed: 11/18/11 16:32						
% Solids	85.1	0.100	% by Volume		85.2			0.05	20	O-14

Hexavalent Chromium by IC - Quality Control

Batch W1K0192 - EPA 7199

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W1K0192-BLK1)				Analyzed: 11/22/11 15:36						
Chromium 6+	ND	0.40	mg/kg wet							
LCS (W1K0192-BS1)				Analyzed: 11/22/11 15:36						
Chromium 6+	3.35	0.40	mg/kg wet	3.95		85	75-125	NR		
Duplicate (W1K0192-DUP1)	**Source: 1J28005-02**			Analyzed: 11/22/11 15:36						
Chromium 6+	59.8	40	mg/kg wet		53.2			12	20	
Matrix Spike (W1K0192-MS1)	**Source: 1K03036-01**			Analyzed: 11/22/11 15:36						
Chromium 6+	1.17	0.47	mg/kg dry	4.68	1.65	NR	75-125	NR		MS-05
Matrix Spike Dup (W1K0192-MSD1)	**Source: 1K03036-01**			Analyzed: 11/22/11 15:36						
Chromium 6+	4.72	0.47	mg/kg dry	4.68	1.65	66	75-125	121	20	MS-05

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03036
Project ID: A11I428

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:31

Notes and Definitions

O-14	This analysis was requested by the client after the holding time was exceeded.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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CERTIFICATE OF ANALYSIS

Client:	Apex Laboratories 12232 SW Garden Place Tigard, OR 97223	**Report Date:**	11/23/11 16:30
		Received Date:	11/03/11 11:00
		Turn Around:	Normal
Attention:	Philip Nerenberg	**Work Order #:**	1K03038
Phone:	(503) 718-2323		
Fax:	(503) 718-0333		
		Client Project:	A11I030

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

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Dear Philip Nerenberg :

Enclosed are the results of analyses for samples received 11/03/11 11:00 with the Chain of Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Hai Van Nguyen
Project Manager

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03038
Project ID: A11I030

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CYN-110831-12-B	Client	A11I030-31	1K03038-01	Soil	08/31/11 12:41

ANALYSES

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium by IC

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03038
Project ID: A11I030

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

1K03038-01 CYN-110831-12-B

Sampled: 08/31/11 12:41 **Sampled By:** Client **Matrix:** Soil

Sample Note: A11I030-31

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: EPA 160.3M Batch: W1K0758 Prepared: 11/18/11 11:49 Analyzed: 11/18/11 16:32 Analyst: apa

Analyte	Result	MDL	MRL	Units	Dilution	Qualifier
% Solids	**86.1**		0.100	% by Volume	1	O-14

Hexavalent Chromium by IC

Method: EPA 7199 Batch: W1K0192 Prepared: 11/11/11 14:36 Analyzed: 11/22/11 15:36 Analyst: mac

Analyte	Result	MDL	MRL	Units	Dilution	Qualifier
Chromium 6+	**0.87**	0.15	0.46	mg/kg dry	1	O-14

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03038
Project ID: A11I030

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03038
Project ID: A11I030

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W1K0758 - EPA 160.3M

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Duplicate (W1K0758-DUP1)	**Source: 1K03036-01**			Analyzed: 11/18/11 16:32						
% Solids	85.1	0.100	% by Volume		85.2			0.05	20	O-14

Hexavalent Chromium by IC - Quality Control

Batch W1K0192 - EPA 7199

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W1K0192-BLK1)				Analyzed: 11/22/11 15:36						
Chromium 6+	ND	0.40	mg/kg wet							
LCS (W1K0192-BS1)				Analyzed: 11/22/11 15:36						
Chromium 6+	3.35	0.40	mg/kg wet	3.95		85	75-125	NR		
Duplicate (W1K0192-DUP1)	**Source: 1J28005-02**			Analyzed: 11/22/11 15:36						
Chromium 6+	59.8	40	mg/kg wet		53.2			12	20	
Matrix Spike (W1K0192-MS1)	**Source: 1K03036-01**			Analyzed: 11/22/11 15:36						
Chromium 6+	1.17	0.47	mg/kg dry	4.68	1.65	NR	75-125	NR		MS-05
Matrix Spike Dup (W1K0192-MSD1)	**Source: 1K03036-01**			Analyzed: 11/22/11 15:36						
Chromium 6+	4.72	0.47	mg/kg dry	4.68	1.65	66	75-125	121	20	MS-05

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03038
Project ID: A11I030

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

Notes and Definitions

O-14	This analysis was requested by the client after the holding time was exceeded.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

CERTIFICATE OF ANALYSIS

Client:	Apex Laboratories 12232 SW Garden Place Tigard, OR 97223	**Report Date:**	11/23/11 16:30
		Received Date:	11/03/11 11:00
		Turn Around:	Normal
Attention:	Philip Nerenberg	**Work Order #:**	1K03039
Phone:	(503) 718-2323		
Fax:	(503) 718-0333		
		Client Project:	A11I394

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Philip Nerenberg :

Enclosed are the results of analyses for samples received 11/03/11 11:00 with the Chain of Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Hai Van Nguyen
Project Manager

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03039
Project ID: A11I394

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
CYN-110926-78-A	Client	A11I394-16	1K03039-01	Soil	09/26/11 11:33

ANALYSES

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Hexavalent Chromium by IC

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Apex Laboratories
12232 SW Garden Place
Tigard OR, 97223

Report ID: 1K03039
Project ID: A11I394

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

1K03039-01 CYN-110926-78-A

Sampled: 09/26/11 11:33 **Sampled By:** Client **Matrix:** Soil

Sample Note: A11I394-16

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: EPA 160.3M Batch: W1K0758 Prepared: 11/18/11 11:49 Analyzed: 11/18/11 16:32 Analyst: apa

Analyte	Result	MDL	MRL	Units	Dilution	Qualifier
% Solids	**91.1**		0.100	% by Volume	1	O-14

Hexavalent Chromium by IC

Method: EPA 7199 Batch: W1K0192 Prepared: 11/11/11 14:36 Analyzed: 11/22/11 15:36 Analyst: mac

Analyte	Result	MDL	MRL	Units	Dilution	Qualifier
Chromium 6+	**1.0**	0.14	0.44	mg/kg dry	1	O-14

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Tigard OR, 97223

Report ID: 1K03039
Project ID: A11I394

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

QUALITY CONTROL SECTION

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Apex Laboratories
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Tigard OR, 97223

Report ID: 1K03039
Project ID: A11I394

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

Batch W1K0758 - EPA 160.3M

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Duplicate (W1K0758-DUP1)	**Source: 1K03036-01**			Analyzed: 11/18/11 16:32						
% Solids	85.1	0.100	% by Volume		85.2			0.05	20	O-14

Hexavalent Chromium by IC - Quality Control

Batch W1K0192 - EPA 7199

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W1K0192-BLK1)				Analyzed: 11/22/11 15:36						
Chromium 6+	ND	0.40	mg/kg wet							
LCS (W1K0192-BS1)				Analyzed: 11/22/11 15:36						
Chromium 6+	3.35	0.40	mg/kg wet	3.95		85	75-125	NR		
Duplicate (W1K0192-DUP1)	**Source: 1J28005-02**			Analyzed: 11/22/11 15:36						
Chromium 6+	59.8	40	mg/kg wet		53.2			12	20	
Matrix Spike (W1K0192-MS1)	**Source: 1K03036-01**			Analyzed: 11/22/11 15:36						
Chromium 6+	1.17	0.47	mg/kg dry	4.68	1.65	NR	75-125	NR		MS-05
Matrix Spike Dup (W1K0192-MSD1)	**Source: 1K03036-01**			Analyzed: 11/22/11 15:36						
Chromium 6+	4.72	0.47	mg/kg dry	4.68	1.65	66	75-125	121	20	MS-05

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Project ID: A11I394

Date Received: 11/03/11 11:00
Date Reported: 11/23/11 16:30

Notes and Definitions

O-14	This analysis was requested by the client after the holding time was exceeded.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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Canyon, Pint, and Cripple Creeks Soil, PCBs

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Friday, March 30, 2012

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE Canyon Creek Trestle / 7985

Enclosed are the results of analyses for work order A12C299, which was received by the laboratory on 3/21/2012 at 10:47:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CYN-110831-11-B	A12C299-01	Soil	08/31/11 12:24	03/21/12 10:47
PNT-110901-04-A	A12C299-02	Soil	09/01/11 15:00	03/21/12 10:47
PNT-110901-28-A	A12C299-03	Soil	09/01/11 14:07	03/21/12 10:47
PNT-110901-05-A	A12C299-04	Soil	09/01/11 15:45	03/21/12 10:47
CRP-110908-31-A	A12C299-05	Soil	09/08/11 15:05	03/21/12 10:47
CRP-110912-06-A	A12C299-06	Soil	09/12/11 10:49	03/21/12 10:47

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-11-B (A12C299-01)			**Matrix: Soil**		**Batch: 1203451**			**C-07, H-02**
Aroclor 1016	ND	---	10.3	ug/kg dry	1	03/23/12 19:30	EPA 8082A	
Aroclor 1221	ND	---	10.3	"	"	"	"	
Aroclor 1232	ND	---	10.3	"	"	"	"	
Aroclor 1242	ND	---	10.3	"	"	"	"	
Aroclor 1248	ND	---	10.3	"	"	"	"	
Aroclor 1254	ND	---	10.3	"	"	"	"	
Aroclor 1260	ND	---	10.3	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 76 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*90 %*	*Limits: 55-130 %*	"	"	"	
PNT-110901-04-A (A12C299-02)			**Matrix: Soil**		**Batch: 1203451**			**C-07, H-02**
Aroclor 1016	ND	---	10.3	ug/kg dry	1	03/23/12 19:48	EPA 8082A	
Aroclor 1221	ND	---	10.3	"	"	"	"	
Aroclor 1232	ND	---	10.3	"	"	"	"	
Aroclor 1242	ND	---	10.3	"	"	"	"	
Aroclor 1248	ND	---	10.3	"	"	"	"	
Aroclor 1254	ND	---	10.3	"	"	"	"	
Aroclor 1260	ND	---	10.3	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 82 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*303 %*	*Limits: 55-130 %*	"	"	"	*S-02*
PNT-110901-28-A (A12C299-03)			**Matrix: Soil**		**Batch: 1203451**			**C-07, H-02**
Aroclor 1016	ND	---	11.6	ug/kg dry	1	03/23/12 20:23	EPA 8082A	
Aroclor 1221	ND	---	11.6	"	"	"	"	
Aroclor 1232	ND	---	11.6	"	"	"	"	
Aroclor 1242	ND	---	11.6	"	"	"	"	
Aroclor 1248	ND	---	11.6	"	"	"	"	
Aroclor 1254	ND	---	11.6	"	"	"	"	
Aroclor 1260	ND	---	11.6	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 74 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*88 %*	*Limits: 55-130 %*	"	"	"	
PNT-110901-05-A (A12C299-04)			**Matrix: Soil**		**Batch: 1203451**			**C-07, H-02**
Aroclor 1016	ND	---	11.2	ug/kg dry	1	03/23/12 20:41	EPA 8082A	
Aroclor 1221	ND	---	11.2	"	"	"	"	
Aroclor 1232	ND	---	11.2	"	"	"	"	
Aroclor 1242	ND	---	11.2	"	"	"	"	

Apex Laboratories

Philip Nerenberg, Lab Director

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503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-05-A (A12C299-04)			**Matrix: Soil**		**Batch: 1203451**			**C-07, H-02**
Aroclor 1248	ND	---	11.2	ug/kg dry	1	"	EPA 8082A	
Aroclor 1254	ND	---	11.2	"	"	"	"	
Aroclor 1260	ND	---	11.2	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 71 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*85 %*	*Limits: 55-130 %*	"	"	"	
CRP-110908-31-A (A12C299-05)			**Matrix: Soil**		**Batch: 1203451**			**C-07, H-02**
Aroclor 1016	ND	---	9.34	ug/kg dry	1	03/23/12 20:58	EPA 8082A	
Aroclor 1221	ND	---	9.34	"	"	"	"	
Aroclor 1232	ND	---	9.34	"	"	"	"	
Aroclor 1242	ND	---	9.34	"	"	"	"	
Aroclor 1248	ND	---	9.34	"	"	"	"	
Aroclor 1254	ND	---	9.34	"	"	"	"	
Aroclor 1260	ND	---	9.34	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 80 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*97 %*	*Limits: 55-130 %*	"	"	"	
CRP-110912-06-A (A12C299-06)			**Matrix: Soil**		**Batch: 1203451**			**C-07, H-02**
Aroclor 1016	ND	---	10.3	ug/kg dry	1	03/23/12 21:16	EPA 8082A	
Aroclor 1221	ND	---	10.3	"	"	"	"	
Aroclor 1232	ND	---	10.3	"	"	"	"	
Aroclor 1242	ND	---	10.3	"	"	"	"	
Aroclor 1248	ND	---	10.3	"	"	"	"	
Aroclor 1254	ND	---	10.3	"	"	"	"	
Aroclor 1260	ND	---	10.3	"	"	"	"	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 84 %*	*Limits: 50-125 %*	"	"	"	
Decachlorobiphenyl (Surr)			*96 %*	*Limits: 55-130 %*	"	"	"	

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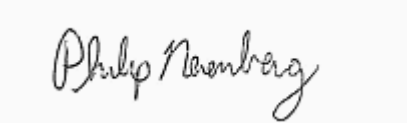

Philip Nerenberg, Lab Director

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503-718-2323 Phone
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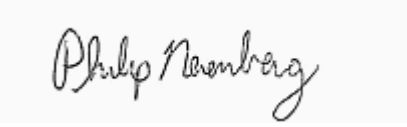
Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CYN-110831-11-B (A12C299-01)			**Matrix: Soil**		**Batch: 1203412**			
% Solids	**93.4**	---	1.00	% by Weight	1	03/22/12 10:57	Apex SOP	
PNT-110901-04-A (A12C299-02)			**Matrix: Soil**		**Batch: 1203412**			
% Solids	**90.9**	---	1.00	% by Weight	1	03/22/12 10:57	Apex SOP	
PNT-110901-28-A (A12C299-03)			**Matrix: Soil**		**Batch: 1203412**			
% Solids	**83.0**	---	1.00	% by Weight	1	03/22/12 10:57	Apex SOP	
PNT-110901-05-A (A12C299-04)			**Matrix: Soil**		**Batch: 1203412**			
% Solids	**87.1**	---	1.00	% by Weight	1	03/22/12 10:57	Apex SOP	
CRP-110908-31-A (A12C299-05)			**Matrix: Soil**		**Batch: 1203412**			
% Solids	**96.5**	---	1.00	% by Weight	1	03/22/12 10:57	Apex SOP	
CRP-110912-06-A (A12C299-06)			**Matrix: Soil**		**Batch: 1203412**			
% Solids	**93.6**	---	1.00	% by Weight	1	03/22/12 10:57	Apex SOP	

Apex Laboratories



Philip Nerenberg, Lab Director

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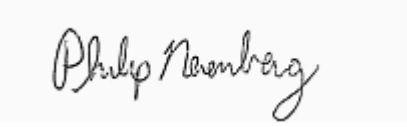
Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203451 - EPA 3546							**Soil**					
Blank (1203451-BLK1)					Prepared: 03/23/12 09:03		Analyzed: 03/23/12 18:37					**C-07**
EPA 8082A												
Aroclor 1016	ND	---	8.33	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	---	8.33	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	---	8.33	"	"	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 80 %*	*Limits: 50-125 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*97 %*	*55-130 %*			*"*					
LCS (1203451-BS1)					Prepared: 03/23/12 09:03		Analyzed: 03/23/12 18:55					**C-07**
EPA 8082A												
Aroclor 1016	206	---	10.0	ug/kg wet	1	250	---	82	40-140%	---	---	
Aroclor 1260	239	---	10.0	"	"	"	---	96	60-130%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 79 %*	*Limits: 50-125 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*98 %*	*55-130 %*			*"*					
Duplicate (1203451-DUP1)					Prepared: 03/23/12 09:03		Analyzed: 03/23/12 20:05					**C-07, H-02**
QC Source Sample: PNT-110901-04-A (A12C299-02)												
EPA 8082A												
Aroclor 1016	ND	---	10.2	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	10.2	"	"	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	10.2	"	"	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	10.2	"	"	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	10.2	"	"	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	10.2	"	"	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	10.2	"	"	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 78 %*	*Limits: 50-125 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*295 %*	*55-130 %*			*"*					*S-02*
Matrix Spike (1203451-MS1)					Prepared: 03/23/12 09:03		Analyzed: 03/23/12 21:33					**C-07, H-02**
QC Source Sample: CRP-110912-06-A (A12C299-06)												
EPA 8082A												
Aroclor 1016	221	---	10.5	ug/kg dry	1	262	ND	85	40-140%	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1203451 - EPA 3546							**Soil**					
Matrix Spike (1203451-MS1)					Prepared: 03/23/12 09:03	Analyzed: 03/23/12 21:33						**C-07, H-02**
QC Source Sample: CRP-110912-06-A (A12C299-06)												
Aroclor 1260	217	---	10.5	ug/kg dry	"	"	ND	83	60-130%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 85 %*	*Limits: 50-125 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*94 %*	*55-130 %*			*"*					

Apex Laboratories

Philip Nerenberg, Lab Director

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch 1203412 - Total Solids (Dry Weight) **Soil**

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1203451							
A12C299-01	Soil	EPA 8082A	08/31/11 12:24	03/23/12 09:03	10.37g/5mL	10g/5mL	0.96
A12C299-02	Soil	EPA 8082A	09/01/11 15:00	03/23/12 09:03	10.68g/5mL	10g/5mL	0.94
A12C299-03	Soil	EPA 8082A	09/01/11 14:07	03/23/12 09:03	10.35g/5mL	10g/5mL	0.97
A12C299-04	Soil	EPA 8082A	09/01/11 15:45	03/23/12 09:03	10.26g/5mL	10g/5mL	0.98
A12C299-05	Soil	EPA 8082A	09/08/11 15:05	03/23/12 09:03	11.1g/5mL	10g/5mL	0.90
A12C299-06	Soil	EPA 8082A	09/12/11 10:49	03/23/12 09:03	10.35g/5mL	10g/5mL	0.97

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Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Canyon Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	03/30/12 09:10

Notes and Definitions

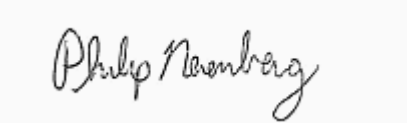
Qualifiers:

C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
H-02	This sample was extracted outside of the EPA recommended holding time.
S-02	Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



Philip Nerenberg, Lab Director

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Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 03/30/12 09:10

Relog A12C299 3-21-12 KM ~~AHI030~~

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Birch Avenue, Suite 203 • Portland OR 97209
(503) 799-0717 • Fax (503) 227-2208

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Wilkins-Elair Kerin

Liquid with Sediment Sample: ___ Test Phase ___ Test Sediment ___ Test Both
Multi-Phase Sample: ___ Test One (which) ___ Test Separately ___ Mixture

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CYN-110831-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domino; Results to A. Leritz, R. Ede

Matrix: Soil, Water, Other
Analyses to be Performed: Lead, Chromium (EPA Method 6010)

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Lead, Chromium (EPA Method 6010)								Remarks
1	54-A	31-Aug-11	938	0.0 - 0.5' bgs	x			1									
2	54-B	31-Aug-11	945	0.5 - 1.0' bgs	x			1	X								
3	54-C	31-Aug-11	952	1.0 - 1.5' bgs	x			1									
4	55-A	31-Aug-11	1024	0.0 - 0.5' bgs	x			1	X								
5	55-AD	31-Aug-11	1024	0.0 - 0.5' bgs	x			1	X								
6	55-B	31-Aug-11	1045	0.5 - 1.0' bgs	x			1									
7	55-C	31-Aug-11	1052	1.0 - 1.5' bgs	x			1									
8	05-A	31-Aug-11	1112	0.0 - 0.5' bgs	x			1									
9	05-B	31-Aug-11	1127	0.5 - 1.0' bgs	x			1	X								
10	05-C	31-Aug-11	1135	1.0 - 1.5' bgs	x			1									
11	15-A	31-Aug-11	1205	0.0 - 0.5' bgs	x			1									
12	15-B	31-Aug-11	1224	0.5 - 1.0' bgs	x			1	X								
13	15-C	31-Aug-11	1234	1.0 - 1.5' bgs	x			1									
14	21-A	31-Aug-11	1258	0.0 - 0.5' bgs	x			1									
15	21-B	31-Aug-11	1300	0.5 - 1.0' bgs	x			1									
16	21-C	31-Aug-11	1314	1.0 - 1.5' bgs	x			1	X								
17	01-A	31-Aug-11	935	0.0 - 0.5' bgs	x			1	X								
18	01-AD	31-Aug-11	935	0.0 - 0.5' bgs	x			1									
19	01-B	31-Aug-11	940	0.5 - 1.0' bgs	x			1									
20	01-C	31-Aug-11	950	1.0 - 1.5' bgs	x			1									
21	03-A	31-Aug-11	1005	0.0 - 0.5' bgs	x			1	X								
22	03-B	31-Aug-11	1015	0.5 - 1.0' bgs	x			1									
23	03-C	31-Aug-11	1025	1.0 - 1.5' bgs	x			1									
24	03-A	31-Aug-11	1050	0.0 - 0.5' bgs	x			1	X								
25	03-B	31-Aug-11	1100	0.5 - 1.0' bgs	x			1									
26	03-C	31-Aug-11	1115	1.0 - 1.5' bgs	x			1									
27	33-A	31-Aug-11	1125	0.0 - 0.5' bgs	x			1									
28	33-B	31-Aug-11	1130	0.5 - 1.0' bgs	x			1	X								
29	33-C	31-Aug-11	1135	1.0 - 1.5' bgs	x			1									
30	13-A	31-Aug-11	1220	0.0 - 0.5' bgs	x			1									
31	13-B	31-Aug-11	1241	0.5 - 1.0' bgs	x			1	X								
32	13-C	31-Aug-11	1300	1.0 - 1.5' bgs	x			1									

Relinquished by	Company	Date	Time	Received by	Company
RAS B. Ede	HAI	9/2/11	1140		APEX
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 03/30/12 09:10

Relog A12C299 3-29-12 KO A11I031

HAHN AND ASSOCIATES, INC.
Environmental Consultants
424 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 796-0717 - Fax (503) 227-2208

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Uhlfelder-Dale Keith

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Solids
Neat Phase Sample: Test Oils (solids) / Test Solid/Oily / Grab

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-119503-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

	Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)								Remarks
	32	03-A	1-Sep-11	1123	0.0 - 0.5' bgs	x			1	X								
	33	03-AD	1-Sep-11	1123	0.0 - 0.5' bgs	x			1									
	34	03-B	1-Sep-11	1141	0.5 - 1.0' bgs	x			1									
relog →	35	28-A	1-Sep-11	1407	0.0 - 0.5' bgs	x			1	X								
	36	28-B	1-Sep-11	1422	0.5 - 1.0' bgs	x			1									
	37	28-C	1-Sep-11	1432	1.0 - 1.5' bgs	x			1									
relog →	38	04-A	1-Sep-11	1500	0.0 - 0.5' bgs	x			1	X								
	39	04-AD	1-Sep-11	1500	0.0 - 0.5' bgs	x			1									
	40	04-B	1-Sep-11	1510	0.5 - 1.0' bgs	x			1									
	41	04-C	1-Sep-11	1525	1.0 - 1.5' bgs	x			1									
relog →	42	05-A	1-Sep-11	1545	0.0 - 0.5' bgs	x			1	X								
	43	05-B	1-Sep-11	1601	0.5 - 1.0' bgs	x			1									
	44	05-C	1-Sep-11	1605	1.0 - 1.5' bgs	x			1									

Relinquished by: Robert B. Ede — Company: HAI — Date: 9/2/11 — Time: 1010
Received by: [illegible] — Company: APEX
Relinquished by / Company / Date / Time / Received by / Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 03/30/12 09:10

Relog A12C299 ~~A11I167~~ 7-21-12 RH

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CHAIN OF CUSTODY

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlmann/Clair Rohn

Liquid with Sediment Sample: Test Whole / Test Sediment / Test Both
Multiphase Sample: Test One Phase / Test Separately / Discuss

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110968-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Dorina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (SW6020/6010)	Hold	Remarks
1	14-A	8-Sep-11	905	0.0 - 0.5' bgs	x			1	X		
2	14-B	8-Sep-11	915	0.5 - 1.0' bgs	x			1			
3	14-BD	8-Sep-11	915	0.5 - 1.0' bgs	x			1			
4	14-C	8-Sep-11	935	1.0 - 1.5' bgs	x			1			
5	21-A	8-Sep-11	943	0.0 - 0.5' bgs	x			1	X		
6	21-B	8-Sep-11	950	0.5 - 1.0' bgs	x			1			
7	21-C	8-Sep-11	1000	1.0 - 1.5' bgs	x			1			
8	27-A	8-Sep-11	1002	0.0 - 0.5' bgs	x			1	X		
9	27-B	8-Sep-11	1007	0.5 - 1.0' bgs	x			1			
10	27-C	8-Sep-11	1009	1.0 - 1.5' bgs	x			1			
11	28-A	8-Sep-11	1107	0.0 - 0.5' bgs	x			1	X		
12	28-B	8-Sep-11	1113	0.5 - 1.0' bgs	x			1			
13	28-C	8-Sep-11	1123	1.0 - 1.5' bgs	x			1			
14	32-A	8-Sep-11	1330	0.0 - 0.5' bgs	x			1	X		
15	32-B	8-Sep-11	1340	0.0 - 0.5' bgs	x			1	X		
16	35-B	8-Sep-11	1350	0.5 - 1.0' bgs	x			1			
17	35-C	8-Sep-11	1400	1.0 - 1.5' bgs	x			1			
18	37-A	8-Sep-11	1426	0.0 - 0.5' bgs	x			1	X		
19	37-B	8-Sep-11	1433	0.5 - 1.0' bgs	x			1			
20	37-C	8-Sep-11	1445	1.0 - 1.5' bgs	x			1			
relog → 21	31-A	8-Sep-11	1505	0.0 - 0.5' bgs	x			1	X		
22	31-B	8-Sep-11	1516	0.5 - 1.0' bgs	x			1			
23	31-BD	8-Sep-11	1516	0.5 - 1.0' bgs	x			1			
24	31-C	8-Sep-11	1530	1.0 - 1.5' bgs	x			1			
25	20-A	8-Sep-11	1557	0.0 - 0.5' bgs	x			1	X		
26	20-B	8-Sep-11	1602	0.5 - 1.0' bgs	x			1			
27	20-C	8-Sep-11	1610	1.0 - 1.5' bgs	x			1			
28	15-A	8-Sep-11	912	0.0 - 0.5' bgs	x			1	X		
29	15-B	8-Sep-11	920	0.5 - 1.0' bgs	x			1			
30	15-C	8-Sep-11	927	1.0 - 1.5' bgs	x			1			
31	16-A	8-Sep-11	948	0.0 - 0.5' bgs	x			1	X		
32	16-B	8-Sep-11	953	0.5 - 1.0' bgs	x			1			
33	16-C	8-Sep-11	1001	1.0 - 1.5' bgs	x			1			
34	23-A	8-Sep-11	1021	0.0 - 0.5' bgs	x			1	X		
35	23-B	8-Sep-11	1027	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAF	9/12/11	1030	Jennifer Sitth	Apex
		9/13/11	930	Jennifer Sitth	Apex

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Canyon Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 03/30/12 09:10

relog A12C299

3-21-12 KD

ATT 184

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Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 795-0717 • Fax (503) 227-3239

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlmann-Chet Keltz

Liquid with Sediment Sample: Test Press ____ Test Sediment ____ Test Both ____
Bulk Phase Sample: Test Dry (solids) ____ Test Separatory ____ Grab ____

Sampler Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110912-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Analyses to be Performed: As, Cd, Cr, Pb, Hg (EPA Method 6010)

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Hg (EPA Method 6010)	PCBs	Remarks
1	34-A	12-Sep-11	955	0.0 - 0.5' bgs	x			1	x		
2	34-B	12-Sep-11	903	0.5 - 1.0' bgs	x			1			
3	34-C	12-Sep-11	907	1.0 - 1.5' bgs	x			1			
4	13-A	12-Sep-11	928	0.0 - 0.5' bgs	x			1	x		
5	13-AD	12-Sep-11	928	0.0 - 0.5' bgs	x			1	x		
6	13-B	12-Sep-11	942	0.5 - 1.0' bgs	x			1			
7	13-C	12-Sep-11	955	1.0 - 1.5' bgs	x			1			
8	03-A	12-Sep-11	1017	0.0 - 0.5' bgs	x			1	x		
9	03-B	12-Sep-11	1025	0.5 - 1.0' bgs	X			1			
10	03-A	12-Sep-11	1045	0.0 - 0.5' bgs	x			1	x		
11	03-B	12-Sep-11	1054	0.5 - 1.0' bgs	x			1			
12	03-C	12-Sep-11	1107	1.0 - 1.5' bgs	x			1			
13	05-A	12-Sep-11	1130	0.0 - 0.5' bgs	x			1	x		
14	05-B	12-Sep-11	1145	0.5 - 1.0' bgs	x			1			
15	05-C	12-Sep-11	1155	1.0 - 1.5' bgs	x			1			
16	455	12-Sep-11	1319	0.0 - 0.5' bgs	x			1	x		
17	455	12-Sep-11	1329	0.0 - 0.5' bgs	x			1	x		
18	455	12-Sep-11	1344	0.0 - 0.5' bgs	x			1	x		
19	455D	12-Sep-11	1344	0.0 - 0.5' bgs	x			1	x		
20	455	12-Sep-11	1350	0.0 - 0.5' bgs	x			1	x		
21	455	12-Sep-11	1400	0.0 - 0.5' bgs	x			1	x		
22	25-A	12-Sep-11	850	0.0 - 0.5' bgs	x			1	x		
23	25-B	12-Sep-11	906	0.5 - 1.0' bgs	x			1			
24	25-C	12-Sep-11	914	1.0 - 1.5' bgs	x			1			
25	12-A	12-Sep-11	937	0.0 - 0.5' bgs	x			1	x		
26	12-B	12-Sep-11	945	0.5 - 1.0' bgs	x			1			
27	12-BD	12-Sep-11	945	0.5 - 1.0' bgs	x			1			
28	12-C	12-Sep-11	955	1.0 - 1.5' bgs	x			1			
29	07-A	12-Sep-11	1014	0.0 - 0.5' bgs	x			1	x		
30	07-B	12-Sep-11	1020	0.5 - 1.0' bgs	x			1			
31	07-C	12-Sep-11	1030	1.0 - 1.5' bgs	x			1			
32	06-A	12-Sep-11	1040	0.0 - 0.5' bgs	x			1	x		
33	06-B	12-Sep-11	1050	0.5 - 1.0' bgs	x			1			
34	06-BD	12-Sep-11	1050	0.5 - 1.0' bgs	x			1			
35	06-C	12-Sep-11	1100	1.0 - 1.5' bgs	x			1			
36	04-A	12-Sep-11	1140	0.0 - 0.5' bgs	x			1	x		
37	04-B	12-Sep-11	1145	0.5 - 1.0' bgs	x			1			
38	28-A	12-Sep-11	1310	0.0 - 0.5' bgs	x			1	x		
39	28-B	12-Sep-11	1320	0.5 - 1.0' bgs	x			1			
40	28-C	12-Sep-11	1335	1.0 - 1.5' bgs	x			1			

relog →

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAI	9/13/11	9:40	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Attachment D – Laboratory Analytical Reports for Pint Creek Soil, Sediment, and Surface Water

Pint Creek Soil and Sediment

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, November 17, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Pint Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I031, which was received by the laboratory on 9/2/2011 at 10:40:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PNT-110901-01-A	A11I031-01	Soil	09/01/11 08:38	09/02/11 10:40
PNT-110901-01-B	A11I031-02	Soil	09/01/11 08:50	09/02/11 10:40
PNT-110901-01-C	A11I031-03	Soil	09/01/11 09:02	09/02/11 10:40
PNT-110901-15-A	A11I031-04	Soil	09/01/11 09:32	09/02/11 10:40
PNT-110901-15-B	A11I031-05	Soil	09/01/11 09:41	09/02/11 10:40
PNT-110901-15-C	A11I031-06	Soil	09/01/11 09:55	09/02/11 10:40
PNT-110901-22-A	A11I031-07	Soil	09/01/11 10:21	09/02/11 10:40
PNT-110901-11-A	A11I031-10	Soil	09/01/11 11:24	09/02/11 10:40
PNT-110901-11-AD	A11I031-11	Soil	09/01/11 11:24	09/02/11 10:40
PNT-110901-11-B	A11I031-12	Soil	09/01/11 11:41	09/02/11 10:40
PNT-110901-11-C	A11I031-13	Soil	09/01/11 11:55	09/02/11 10:40
PNT-110901-23-A	A11I031-14	Soil	09/01/11 14:00	09/02/11 10:40
PNT-110901-18-A	A11I031-17	Soil	09/01/11 14:36	09/02/11 10:40
PNT-110901-18-B	A11I031-18	Soil	09/01/11 14:46	09/02/11 10:40
PNT-110901-18-C	A11I031-19	Soil	09/01/11 15:05	09/02/11 10:40
PNT-110901-17-A	A11I031-20	Soil	09/01/11 15:29	09/02/11 10:40
PNT-110901-17-B	A11I031-21	Soil	09/01/11 15:41	09/02/11 10:40
PNT-110901-17-C	A11I031-22	Soil	09/01/11 15:55	09/02/11 10:40
PNT-110901-02-A	A11I031-23	Soil	09/01/11 08:47	09/02/11 10:40
PNT-110901-02-B	A11I031-24	Soil	09/01/11 08:51	09/02/11 10:40
PNT-110901-02-C	A11I031-25	Soil	09/01/11 08:56	09/02/11 10:40
PNT-110901-27-A	A11I031-26	Soil	09/01/11 09:18	09/02/11 10:40
PNT-110901-27-B	A11I031-27	Soil	09/01/11 09:37	09/02/11 10:40
PNT-110901-27-C	A11I031-28	Soil	09/01/11 09:47	09/02/11 10:40
PNT-110901-26-A	A11I031-29	Soil	09/01/11 10:14	09/02/11 10:40
PNT-110901-26-B	A11I031-30	Soil	09/01/11 10:22	09/02/11 10:40
PNT-110901-26-C	A11I031-31	Soil	09/01/11 10:38	09/02/11 10:40
PNT-110901-03-A	A11I031-32	Soil	09/01/11 11:23	09/02/11 10:40
PNT-110901-03-AD	A11I031-33	Soil	09/01/11 11:23	09/02/11 10:40
PNT-110901-03-B	A11I031-34	Soil	09/01/11 11:41	09/02/11 10:40
PNT-110901-28-A	A11I031-35	Soil	09/01/11 14:07	09/02/11 10:40
PNT-110901-28-B	A11I031-36	Soil	09/01/11 14:22	09/02/11 10:40
PNT-110901-28-C	A11I031-37	Soil	09/01/11 14:32	09/02/11 10:40
PNT-110901-04-A	A11I031-38	Soil	09/01/11 15:00	09/02/11 10:40
PNT-110901-04-AD	A11I031-39	Soil	09/01/11 15:00	09/02/11 10:40

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Philip Nerenberg, Lab Director

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Apex Labs

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PNT-110901-04-B	A11I031-40	Soil	09/01/11 15:10	09/02/11 10:40
PNT-110901-04-C	A11I031-41	Soil	09/01/11 15:26	09/02/11 10:40
PNT-110901-05-A	A11I031-42	Soil	09/01/11 15:45	09/02/11 10:40
PNT-110901-05-B	A11I031-43	Soil	09/01/11 16:01	09/02/11 10:40
PNT-110901-05-C	A11I031-44	Soil	09/01/11 16:06	09/02/11 10:40
PNT-110902-29-A	A11I063-01	Soil	09/02/11 09:18	09/06/11 12:49
PNT-110902-29-B	A11I063-02	Soil	09/02/11 09:30	09/06/11 12:49
PNT-110902-29-C	A11I063-03	Soil	09/02/11 09:38	09/06/11 12:49
PNT-110902-30-A	A11I063-04	Soil	09/02/11 10:05	09/06/11 12:49
PNT-110902-30-B	A11I063-05	Soil	09/02/11 10:15	09/06/11 12:49
PNT-110902-30-C	A11I063-06	Soil	09/02/11 10:23	09/06/11 12:49
PNT-110902-06-A	A11I063-07	Soil	09/02/11 10:47	09/06/11 12:49
PNT-110902-06-B	A11I063-08	Soil	09/02/11 10:54	09/06/11 12:49
PNT-110902-06-C	A11I063-09	Soil	09/02/11 11:02	09/06/11 12:49
PNT-110902-37-A	A11I063-10	Soil	09/02/11 13:16	09/06/11 12:49
PNT-110902-37-B	A11I063-11	Soil	09/02/11 13:20	09/06/11 12:49
PNT-110902-37-C	A11I063-12	Soil	09/02/11 13:25	09/06/11 12:49
PNT-110902-32-A	A11I063-13	Soil	09/02/11 13:45	09/06/11 12:49
PNT-110902-32-B	A11I063-14	Soil	09/02/11 13:53	09/06/11 12:49
PNT-110902-32-C	A11I063-15	Soil	09/02/11 14:00	09/06/11 12:49
PNT-110902-35-A	A11I063-16	Soil	09/02/11 09:22	09/06/11 12:49
PNT-110902-35-B	A11I063-17	Soil	09/02/11 09:30	09/06/11 12:49
PNT-110902-35-C	A11I063-18	Soil	09/02/11 09:40	09/06/11 12:49
PNT-110902-40-A	A11I063-19	Soil	09/02/11 10:00	09/06/11 12:49
PNT-110902-40-B	A11I063-20	Soil	09/02/11 10:15	09/06/11 12:49
PNT-110902-40-BD	A11I063-21	Soil	09/02/11 10:15	09/06/11 12:49
PNT-110902-40-C	A11I063-22	Soil	09/02/11 10:37	09/06/11 12:49
PNT-110902-43-A	A11I063-23	Soil	09/02/11 11:00	09/06/11 12:49
PNT-110902-43-B	A11I063-24	Soil	09/02/11 11:07	09/06/11 12:49
PNT-110902-43-C	A11I063-25	Soil	09/02/11 11:15	09/06/11 12:49
PNT-110902-39-A	A11I063-26	Soil	09/02/11 13:10	09/06/11 12:49
PNT-110902-39-B	A11I063-27	Soil	09/02/11 13:23	09/06/11 12:49
PNT-110902-39-C	A11I063-28	Soil	09/02/11 13:35	09/06/11 12:49
PNT-110902-38-A	A11I063-29	Soil	09/02/11 13:57	09/06/11 12:49
PNT-110902-38-B	A11I063-30	Soil	09/02/11 14:05	09/06/11 12:49

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PNT-110902-38-C	A11I063-31	Soil	09/02/11 14:14	09/06/11 12:49
PNT-110907-13-A	A11I095-01	Soil	09/07/11 09:21	09/08/11 09:48
PNT-110907-13-B	A11I095-02	Soil	09/07/11 09:26	09/08/11 09:48
PNT-110907-13-C	A11I095-03	Soil	09/07/11 09:33	09/08/11 09:48
PNT-110907-24-A	A11I095-04	Soil	09/07/11 09:58	09/08/11 09:48
PNT-110907-24-B	A11I095-05	Soil	09/07/11 10:17	09/08/11 09:48
PNT-110907-24-C	A11I095-06	Soil	09/07/11 10:27	09/08/11 09:48
PNT-110907-48S	A11I095-07	Soil	09/07/11 10:48	09/08/11 09:48
PNT-110907-48SD	A11I095-08	Soil	09/07/11 10:48	09/08/11 09:48
PNT-110907-47S	A11I095-09	Soil	09/07/11 11:02	09/08/11 09:48
PNT-110907-46S	A11I095-10	Soil	09/07/11 11:22	09/08/11 09:48
PNT-110907-25-A	A11I095-11	Soil	09/07/11 09:29	09/08/11 09:48
PNT-110907-19-A	A11I095-14	Soil	09/07/11 10:11	09/08/11 09:48
PNT-110907-19-B	A11I095-15	Soil	09/07/11 10:20	09/08/11 09:48
PNT-110907-19-C	A11I095-16	Soil	09/07/11 10:23	09/08/11 09:48
PNT-110907-12-A	A11I095-17	Soil	09/07/11 10:55	09/08/11 09:48
PNT-110907-12-AD	A11I095-18	Soil	09/07/11 10:55	09/08/11 09:48
PNT-110907-12-B	A11I095-19	Soil	09/07/11 11:14	09/08/11 09:48
PNT-110907-12-C	A11I095-20	Soil	09/07/11 11:18	09/08/11 09:48
PNT-110907-45S	A11I095-21	Soil	09/07/11 11:33	09/08/11 09:48
PNT-110906-34-A	A11I096-01	Soil	09/06/11 09:25	09/08/11 09:48
PNT-110906-34-B	A11I096-02	Soil	09/06/11 09:33	09/08/11 09:48
PNT-110906-34-C	A11I096-03	Soil	09/06/11 09:41	09/08/11 09:48
PNT-110906-31-A	A11I096-04	Soil	09/06/11 10:08	09/08/11 09:48
PNT-110906-31-AD	A11I096-05	Soil	09/06/11 10:08	09/08/11 09:48
PNT-110906-31-B	A11I096-06	Soil	09/06/11 10:22	09/08/11 09:48
PNT-110906-31-C	A11I096-07	Soil	09/06/11 10:27	09/08/11 09:48
PNT-110906-42-A	A11I096-08	Soil	09/06/11 10:59	09/08/11 09:48
PNT-110906-44-A	A11I096-11	Soil	09/06/11 13:35	09/08/11 09:48
PNT-110906-44-B	A11I096-12	Soil	09/06/11 13:43	09/08/11 09:48
PNT-110906-44-C	A11I096-13	Soil	09/06/11 13:50	09/08/11 09:48
PNT-110906-41-A	A11I096-14	Soil	09/06/11 14:11	09/08/11 09:48
PNT-110906-41-B	A11I096-15	Soil	09/06/11 14:17	09/08/11 09:48
PNT-110906-41-C	A11I096-16	Soil	09/06/11 14:26	09/08/11 09:48
PNT-110906-36-A	A11I096-17	Soil	09/06/11 14:46	09/08/11 09:48

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503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PNT-110906-36-B	A11I096-18	Soil	09/06/11 14:54	09/08/11 09:48
PNT-110906-36-C	A11I096-19	Soil	09/06/11 15:08	09/08/11 09:48
PNT-110906-21-A	A11I096-20	Soil	09/06/11 15:32	09/08/11 09:48
PNT-110906-21-B	A11I096-21	Soil	09/06/11 15:43	09/08/11 09:48
PNT-110906-21-C	A11I096-22	Soil	09/06/11 16:00	09/08/11 09:48
PNT-110906-09-A	A11I096-23	Soil	09/06/11 09:25	09/08/11 09:48
PNT-110906-09-B	A11I096-24	Soil	09/06/11 09:34	09/08/11 09:48
PNT-110906-09-C	A11I096-25	Soil	09/06/11 09:47	09/08/11 09:48
PNT-110906-16-A	A11I096-26	Soil	09/06/11 10:06	09/08/11 09:48
PNT-110906-16-B	A11I096-27	Soil	09/06/11 10:16	09/08/11 09:48
PNT-110906-16-C	A11I096-28	Soil	09/06/11 10:23	09/08/11 09:48
PNT-110906-10-A	A11I096-29	Soil	09/06/11 10:46	09/08/11 09:48
PNT-110906-10-B	A11I096-30	Soil	09/06/11 10:56	09/08/11 09:48
PNT-110906-10-C	A11I096-31	Soil	09/06/11 11:02	09/08/11 09:48
PNT-110906-33-A	A11I096-32	Soil	09/06/11 11:37	09/08/11 09:48
PNT-110906-33-B	A11I096-33	Soil	09/06/11 11:46	09/08/11 09:48
PNT-110906-33-C	A11I096-34	Soil	09/06/11 11:53	09/08/11 09:48
PNT-110906-08-A	A11I096-35	Soil	09/06/11 13:38	09/08/11 09:48
PNT-110906-08-AD	A11I096-36	Soil	09/06/11 13:38	09/08/11 09:48
PNT-110906-08-B	A11I096-37	Soil	09/06/11 13:50	09/08/11 09:48
PNT-110906-08-C	A11I096-38	Soil	09/06/11 13:57	09/08/11 09:48
PNT-110906-07-A	A11I096-39	Soil	09/06/11 14:12	09/08/11 09:48
PNT-110906-07-B	A11I096-40	Soil	09/06/11 14:20	09/08/11 09:48
PNT-110906-07-C	A11I096-41	Soil	09/06/11 14:25	09/08/11 09:48
PNT-110906-14-A	A11I096-42	Soil	09/06/11 14:48	09/08/11 09:48
PNT-110906-14-B	A11I096-43	Soil	09/06/11 14:56	09/08/11 09:48
PNT-110906-14-C	A11I096-44	Soil	09/06/11 15:05	09/08/11 09:48
PNT-110906-20-A	A11I096-45	Soil	09/06/11 15:36	09/08/11 09:48
PNT-110906-20-B	A11I096-46	Soil	09/06/11 15:44	09/08/11 09:48
PNT-110906-20-C	A11I096-47	Soil	09/06/11 15:51	09/08/11 09:48
PNT-110930-12-D	A11J011-01	Soil	09/30/11 13:22	10/03/11 10:30
PNT-110930-12-E	A11J011-02	Soil	09/30/11 13:15	10/03/11 10:30
PNT-110930-29-D	A11J011-04	Soil	09/30/11 13:43	10/03/11 10:30
PNT-110930-29-E	A11J011-05	Soil	09/30/11 13:35	10/03/11 10:30
PNT-110930-29-F	A11J011-06	Soil	09/30/11 13:29	10/03/11 10:30

Apex Laboratories

Philip Nerenberg, Lab Director

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503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PNT-110930-58-A	A11J011-07	Soil	09/30/11 14:11	10/03/11 10:30
PNT-110930-58-B	A11J011-08	Soil	09/30/11 14:02	10/03/11 10:30
PNT-110930-57-A	A11J011-10	Soil	09/30/11 14:57	10/03/11 10:30
PNT-110930-57-AD	A11J011-11	Soil	09/30/11 14:57	10/03/11 10:30
PNT-111003-52-A	A11J032-01	Soil	10/03/11 09:15	10/04/11 11:20
PNT-111003-53-A	A11J032-04	Soil	10/03/11 09:42	10/04/11 11:20
PNT-111003-35-D	A11J032-07	Soil	10/03/11 10:22	10/04/11 11:20
PNT-111003-35-E	A11J032-08	Soil	10/03/11 10:19	10/04/11 11:20
PNT-111003-39-D	A11J032-10	Soil	10/03/11 10:50	10/04/11 11:20
PNT-111003-39-E	A11J032-11	Soil	10/03/11 10:45	10/04/11 11:20
PNT-111003-51-A	A11J032-13	Soil	10/03/11 11:13	10/04/11 11:20
PNT-111003-50-A	A11J032-16	Soil	10/03/11 13:02	10/04/11 11:20
PNT-111003-50-AD	A11J032-17	Soil	10/03/11 13:02	10/04/11 11:20
PNT-111003-50-B	A11J032-18	Soil	10/03/11 12:58	10/04/11 11:20
PNT-111003-49-A	A11J032-20	Soil	10/03/11 13:26	10/04/11 11:20
PNT-111003-54-A	A11J032-23	Soil	10/03/11 13:48	10/04/11 11:20
PNT-111003-55-A	A11J032-26	Soil	10/03/11 14:03	10/04/11 11:20
PNT-111003-56-A	A11J032-29	Soil	10/03/11 14:31	10/04/11 11:20
PNT-111004-03-C	A11J052-01	Soil	10/04/11 09:09	10/05/11 09:15
PNT-111004-03-D	A11J052-02	Soil	10/04/11 09:06	10/05/11 09:15
PNT-111004-28-D	A11J052-05	Soil	10/04/11 09:30	10/05/11 09:15
PNT-111004-28-E	A11J052-06	Soil	10/04/11 09:26	10/05/11 09:15
PNT-111004-04-D	A11J052-09	Soil	10/04/11 09:51	10/05/11 09:15
PNT-111004-04-E	A11J052-10	Soil	10/04/11 09:48	10/05/11 09:15
PNT-111004-05-D	A11J052-12	Soil	10/04/11 10:28	10/05/11 09:15
PNT-111004-05-E	A11J052-13	Soil	10/04/11 10:25	10/05/11 09:15
PNT-111004-06-C	A11J052-15	Soil	10/04/11 11:06	10/05/11 09:15
PNT-111004-06-D	A11J052-16	Soil	10/04/11 10:54	10/05/11 09:15
PNT-111004-08-D	A11J052-19	Soil	10/04/11 11:26	10/05/11 09:15
PNT-111004-08-DD	A11J052-20	Soil	10/04/11 11:26	10/05/11 09:15
PNT-111004-08-E	A11J052-21	Soil	10/04/11 11:22	10/05/11 09:15

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-01-A (A11I031-01)			**Matrix: Soil**		**Batch: 1109111**			
Arsenic	**8.31**	---	2.39	mg/kg dry	10	09/12/11 13:59	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**85.7**	---	2.39	"	"	"	"	
Lead	**147**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
PNT-110901-01-B (A11I031-02)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.50	mg/kg dry	10	09/27/11 12:34	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**46.1**	---	2.50	"	"	"	"	
Lead	**15.8**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
PNT-110901-01-C (A11I031-03)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	**2.69**	---	2.52	mg/kg dry	10	09/27/11 12:37	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**50.6**	---	2.52	"	"	"	"	
Lead	**9.80**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
PNT-110901-15-A (A11I031-04)			**Matrix: Soil**		**Batch: 1109111**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/12/11 14:02	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**46.8**	---	2.63	"	"	"	"	
Lead	**22.1**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
PNT-110901-15-B (A11I031-05)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.58	mg/kg dry	10	09/30/11 12:17	EPA 6020	
Chromium	**44.2**	---	2.58	"	"	"	"	
Lead	**8.28**	---	1.29	"	"	"	"	
PNT-110901-15-C (A11I031-06)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.68	mg/kg dry	10	09/30/11 12:20	EPA 6020	
Chromium	**44.0**	---	2.68	"	"	"	"	
Lead	**7.17**	---	1.34	"	"	"	"	
PNT-110901-22-A (A11I031-07)			**Matrix: Soil**		**Batch: 1109111**			
Arsenic	ND	---	2.43	mg/kg dry	10	09/12/11 14:05	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	

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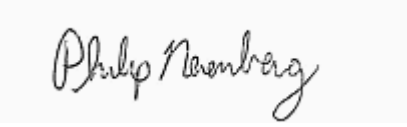

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-22-A (A11I031-07)			**Matrix: Soil**		**Batch: 1109111**			
Chromium	**44.2**	---	2.43	mg/kg dry	10	"	EPA 6020	
Lead	**10.2**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
PNT-110901-11-A (A11I031-10)			**Matrix: Soil**		**Batch: 1109111**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/12/11 14:08	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**45.8**	---	2.56	"	"	"	"	
Lead	**7.98**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
PNT-110901-11-AD (A11I031-11)			**Matrix: Soil**		**Batch: 1109111**			
Arsenic	ND	---	2.64	mg/kg dry	10	09/12/11 14:11	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**49.0**	---	2.64	"	"	"	"	
Lead	**22.3**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
PNT-110901-11-B (A11I031-12)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/30/11 12:23	EPA 6020	
Chromium	**53.2**	---	2.63	"	"	"	"	
Lead	**9.58**	---	1.31	"	"	"	"	
PNT-110901-11-C (A11I031-13)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.58	mg/kg dry	10	09/30/11 12:26	EPA 6020	
Chromium	**56.7**	---	2.58	"	"	"	"	
Lead	**8.55**	---	1.29	"	"	"	"	
PNT-110901-23-A (A11I031-14)			**Matrix: Soil**		**Batch: 1109111**			
Arsenic	**2.59**	---	2.50	mg/kg dry	10	09/12/11 14:14	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**35.2**	---	2.50	"	"	"	"	
Lead	**16.6**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
PNT-110901-18-A (A11I031-17)			**Matrix: Soil**		**Batch: 1109111**			
Arsenic	ND	---	2.55	mg/kg dry	10	09/12/11 14:17	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**43.5**	---	2.55	"	"	"	"	
Lead	**106**	---	1.28	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-18-A (A11I031-17)			**Matrix: Soil**		**Batch: 1109111**			
Silver	ND	---	1.28	mg/kg dry	10	"	EPA 6020	
PNT-110901-18-B (A11I031-18)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/30/11 12:44	EPA 6020	
Chromium	**51.6**	---	2.53	"	"	"	"	
Lead	**11.2**	---	1.26	"	"	"	"	
PNT-110901-18-C (A11I031-19)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.65	mg/kg dry	10	09/30/11 12:47	EPA 6020	
Chromium	**42.6**	---	2.65	"	"	"	"	
Lead	**11.7**	---	1.33	"	"	"	"	
PNT-110901-17-A (A11I031-20)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	ND	---	2.49	mg/kg dry	10	09/12/11 14:41	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**44.0**	---	2.49	"	"	"	"	
Lead	**29.5**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
PNT-110901-17-B (A11I031-21)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.65	mg/kg dry	10	09/30/11 12:50	EPA 6020	
Chromium	**42.1**	---	2.65	"	"	"	"	
Lead	**11.4**	---	1.32	"	"	"	"	
PNT-110901-17-C (A11I031-22)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.69	mg/kg dry	10	09/30/11 12:53	EPA 6020	
Chromium	**45.8**	---	2.69	"	"	"	"	
Lead	**8.77**	---	1.35	"	"	"	"	
PNT-110901-02-A (A11I031-23)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	ND	---	2.52	mg/kg dry	10	09/12/11 14:44	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**47.1**	---	2.52	"	"	"	"	
Lead	**81.8**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
PNT-110901-02-B (A11I031-24)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.65	mg/kg dry	10	09/30/11 12:56	EPA 6020	
Chromium	**46.9**	---	2.65	"	"	"	"	
Lead	**34.3**	---	1.32	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-02-C (A11I031-25)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.70	mg/kg dry	10	09/30/11 13:07	EPA 6020	
Chromium	**44.4**	---	2.70	"	"	"	"	
Lead	**13.8**	---	1.35	"	"	"	"	
PNT-110901-27-A (A11I031-26)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	ND	---	2.76	mg/kg dry	10	09/12/11 14:53	EPA 6020	
Cadmium	ND	---	1.38	"	"	"	"	
Chromium	**54.2**	---	2.76	"	"	"	"	
Lead	**90.5**	---	1.38	"	"	"	"	
Silver	ND	---	1.38	"	"	"	"	
PNT-110901-27-B (A11I031-27)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.84	mg/kg dry	10	09/30/11 13:10	EPA 6020	
Chromium	**58.1**	---	2.84	"	"	"	"	
Lead	**9.49**	---	1.42	"	"	"	"	
PNT-110901-27-C (A11I031-28)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.70	mg/kg dry	10	09/30/11 13:22	EPA 6020	
Chromium	**56.3**	---	2.70	"	"	"	"	
Lead	**7.89**	---	1.35	"	"	"	"	
PNT-110901-26-A (A11I031-29)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	ND	---	2.46	mg/kg dry	10	09/12/11 14:57	EPA 6020	
Cadmium	ND	---	1.23	"	"	"	"	
Chromium	**51.5**	---	2.46	"	"	"	"	
Lead	**23.6**	---	1.23	"	"	"	"	
Silver	ND	---	1.23	"	"	"	"	
PNT-110901-26-B (A11I031-30)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.74	mg/kg dry	10	09/30/11 13:26	EPA 6020	
Chromium	**57.6**	---	2.74	"	"	"	"	
Lead	**8.54**	---	1.37	"	"	"	"	
PNT-110901-26-C (A11I031-31)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.72	mg/kg dry	10	09/30/11 13:31	EPA 6020	
Chromium	**52.0**	---	2.72	"	"	"	"	
Lead	**7.54**	---	1.36	"	"	"	"	
PNT-110901-03-A (A11I031-32)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	**12.3**	---	2.31	mg/kg dry	10	09/12/11 15:01	EPA 6020	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-03-A (A11I031-32)			**Matrix: Soil**		**Batch: 1109132**			
Cadmium	ND	---	1.15	mg/kg dry	10	"	EPA 6020	
Chromium	**62.5**	---	2.31	"	"	"	"	
Lead	**267**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
PNT-110901-03-AD (A11I031-33)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	**17.6**	---	2.26	mg/kg dry	10	09/30/11 13:34	EPA 6020	
Chromium	**62.8**	---	2.26	"	"	"	"	
Lead	**840**	---	1.13	"	"	"	"	
PNT-110901-03-B (A11I031-34)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/30/11 13:37	EPA 6020	
Chromium	**60.4**	---	2.56	"	"	"	"	
Lead	**26.8**	---	1.28	"	"	"	"	
PNT-110901-28-A (A11I031-35)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	**9.43**	---	2.53	mg/kg dry	10	09/12/11 15:04	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**57.6**	---	2.53	"	"	"	"	
Lead	**830**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
PNT-110901-28-B (A11I031-36)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.91	mg/kg dry	10	09/30/11 13:40	EPA 6020	
Chromium	**46.7**	---	2.91	"	"	"	"	
Lead	**30.4**	---	1.45	"	"	"	"	
PNT-110901-28-C (A11I031-37)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	ND	---	2.92	mg/kg dry	10	09/30/11 13:43	EPA 6020	
Chromium	**48.8**	---	2.92	"	"	"	"	
Lead	**56.0**	---	1.46	"	"	"	"	
PNT-110901-04-A (A11I031-38)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	**10.2**	---	2.20	mg/kg dry	10	09/12/11 15:16	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**41.8**	---	2.20	"	"	"	"	
Lead	**1370**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
PNT-110901-04-AD (A11I031-39)			**Matrix: Soil**		**Batch: 1109507**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-04-AD (A11I031-39)			**Matrix: Soil**		**Batch: 1109507**			
Arsenic	**8.72**	---	2.23	mg/kg dry	10	09/30/11 13:46	EPA 6020	
Chromium	**44.2**	---	2.23	"	"	"	"	
Lead	**1240**	---	1.12	"	"	"	"	
PNT-110901-04-B (A11I031-40)			**Matrix: Soil**		**Batch: 1109529**			
Arsenic	ND	---	2.67	mg/kg dry	10	09/30/11 14:10	EPA 6020	
Chromium	**56.5**	---	2.67	"	"	"	"	
Lead	**90.5**	---	1.34	"	"	"	"	
PNT-110901-04-C (A11I031-41)			**Matrix: Soil**		**Batch: 1109529**			
Arsenic	ND	---	2.86	mg/kg dry	10	09/30/11 14:13	EPA 6020	
Chromium	**71.5**	---	2.86	"	"	"	"	
Lead	**43.1**	---	1.43	"	"	"	"	
PNT-110901-05-A (A11I031-42)			**Matrix: Soil**		**Batch: 1109132**			
Arsenic	**3.88**	---	2.30	mg/kg dry	10	09/12/11 15:18	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**39.7**	---	2.30	"	"	"	"	
Lead	**913**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
PNT-110901-05-B (A11I031-43)			**Matrix: Soil**		**Batch: 1109529**			
Arsenic	**6.53**	---	2.36	mg/kg dry	10	09/30/11 14:15	EPA 6020	
Chromium	**44.3**	---	2.36	"	"	"	"	
Lead	**559**	---	1.18	"	"	"	"	
PNT-110901-05-C (A11I031-44)			**Matrix: Soil**		**Batch: 1109529**			
Arsenic	**2.85**	---	2.75	mg/kg dry	10	09/30/11 14:18	EPA 6020	
Chromium	**52.5**	---	2.75	"	"	"	"	
Lead	**192**	---	1.38	"	"	"	"	
PNT-110902-29-A (A11I063-01)			**Matrix: Soil**		**Batch: 1109164**			
Arsenic	**15.1**	---	1.97	mg/kg dry	10	09/12/11 19:15	EPA 6020	
Cadmium	ND	---	0.986	"	"	"	"	
Chromium	**44.4**	---	1.97	"	"	"	"	
Lead	**880**	---	0.986	"	"	"	"	
Silver	ND	---	0.986	"	"	"	"	
PNT-110902-29-B (A11I063-02)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	**3.74**	---	2.49	mg/kg dry	10	09/26/11 15:35	EPA 6020	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-29-B (A11I063-02)			**Matrix: Soil**		**Batch: 1109418**			
Cadmium	ND	---	1.25	mg/kg dry	10	"	EPA 6020	
Chromium	**67.8**	---	2.49	"	"	"	"	
Lead	**169**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
PNT-110902-29-C (A11I063-03)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.84	mg/kg dry	10	09/26/11 15:38	EPA 6020	
Cadmium	ND	---	1.42	"	"	"	"	
Chromium	**53.7**	---	2.84	"	"	"	"	
Lead	**102**	---	1.42	"	"	"	"	
Silver	ND	---	1.42	"	"	"	"	
PNT-110902-30-A (A11I063-04)			**Matrix: Soil**		**Batch: 1109164**			
Arsenic	**9.34**	---	2.80	mg/kg dry	10	09/12/11 19:19	EPA 6020	
Cadmium	ND	---	1.40	"	"	"	"	
Chromium	**46.5**	---	2.80	"	"	"	"	
Lead	**692**	---	1.40	"	"	"	"	
Silver	ND	---	1.40	"	"	"	"	
PNT-110902-30-B (A11I063-05)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.59	mg/kg dry	10	09/26/11 15:50	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**74.6**	---	2.59	"	"	"	"	
Lead	**39.6**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110902-30-C (A11I063-06)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/26/11 15:53	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**77.8**	---	2.60	"	"	"	"	
Lead	**16.5**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110902-06-A (A11I063-07)			**Matrix: Soil**		**Batch: 1109164**			
Arsenic	**5.47**	---	2.22	mg/kg dry	10	09/12/11 19:22	EPA 6020	
Cadmium	ND	---	1.11	"	"	"	"	
Chromium	**47.1**	---	2.22	"	"	"	"	
Lead	**834**	---	1.11	"	"	"	"	
Silver	ND	---	1.11	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-06-B (A11I063-08)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/26/11 16:02	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**85.1**	---	2.63	"	"	"	"	
Lead	**31.4**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
PNT-110902-06-C (A11I063-09)			**Matrix: Soil**		**Batch: 1109546**			
Arsenic	ND	---	2.92	mg/kg dry	10	09/30/11 17:07	EPA 6020	
Chromium	**91.1**	---	2.92	"	"	"	"	
Lead	**94.6**	---	1.46	"	"	"	"	
PNT-110902-37-A (A11I063-10)			**Matrix: Soil**		**Batch: 1109164**			
Arsenic	ND	---	2.95	mg/kg dry	10	09/12/11 19:35	EPA 6020	
Cadmium	ND	---	1.48	"	"	"	"	
Chromium	**55.1**	---	2.95	"	"	"	"	
Lead	**10.5**	---	1.48	"	"	"	"	
Silver	ND	---	1.48	"	"	"	"	
PNT-110902-37-B (A11I063-11)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.49	mg/kg dry	10	09/26/11 16:05	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**76.5**	---	2.49	"	"	"	"	
Lead	**7.62**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
PNT-110902-37-C (A11I063-12)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/26/11 16:08	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**89.7**	---	2.56	"	"	"	"	
Lead	**7.09**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
PNT-110902-32-A (A11I063-13)			**Matrix: Soil**		**Batch: 1109164**			
Arsenic	**2.58**	---	2.52	mg/kg dry	10	09/12/11 19:44	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**76.8**	---	2.52	"	"	"	"	
Lead	**25.0**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
PNT-110902-32-B (A11I063-14)			**Matrix: Soil**		**Batch: 1109418**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-32-B (A11I063-14)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/26/11 16:11	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**115**	---	2.56	"	"	"	"	
Lead	**8.62**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
PNT-110902-32-C (A11I063-15)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.66	mg/kg dry	10	09/26/11 16:14	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**90.0**	---	2.66	"	"	"	"	
Lead	**8.32**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	
PNT-110902-35-A (A11I063-16)			**Matrix: Soil**		**Batch: 1109164**			
Arsenic	ND	---	2.90	mg/kg dry	10	09/12/11 19:47	EPA 6020	
Cadmium	ND	---	1.45	"	"	"	"	
Chromium	**46.0**	---	2.90	"	"	"	"	
Lead	**132**	---	1.45	"	"	"	"	
Silver	ND	---	1.45	"	"	"	"	
PNT-110902-35-B (A11I063-17)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.57	mg/kg dry	10	09/26/11 16:25	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**63.8**	---	2.57	"	"	"	"	
Lead	**63.8**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
PNT-110902-35-C (A11I063-18)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.69	mg/kg dry	10	09/26/11 16:28	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**58.4**	---	2.69	"	"	"	"	
Lead	**27.0**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
PNT-110902-40-A (A11I063-19)			**Matrix: Soil**		**Batch: 1109164**			
Arsenic	ND	---	2.66	mg/kg dry	10	09/12/11 19:49	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**34.2**	---	2.66	"	"	"	"	
Lead	**35.5**	---	1.33	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-40-A (A11I063-19)			**Matrix: Soil**		**Batch: 1109164**			
Silver	ND	---	1.33	mg/kg dry	10	"	EPA 6020	
PNT-110902-40-B (A11I063-20)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.43	mg/kg dry	10	09/26/11 16:31	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**42.0**	---	2.43	"	"	"	"	
Lead	**20.8**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
PNT-110902-40-BD (A11I063-21)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.64	mg/kg dry	10	09/26/11 16:34	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**46.1**	---	2.64	"	"	"	"	
Lead	**19.1**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
PNT-110902-40-C (A11I063-22)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.41	mg/kg dry	10	09/26/11 16:37	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**41.0**	---	2.41	"	"	"	"	
Lead	**5.23**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
PNT-110902-43-A (A11I063-23)			**Matrix: Soil**		**Batch: 1109184**			
Arsenic	ND	---	2.51	mg/kg dry	10	09/13/11 13:07	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**64.5**	---	2.51	"	"	"	"	
Lead	**19.7**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
PNT-110902-43-B (A11I063-24)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.61	mg/kg dry	10	09/26/11 16:40	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**70.2**	---	2.61	"	"	"	"	
Lead	**8.10**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
PNT-110902-43-C (A11I063-25)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.75	mg/kg dry	10	09/26/11 16:43	EPA 6020	
Cadmium	ND	---	1.38	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-43-C (A11I063-25)			**Matrix: Soil**		**Batch: 1109418**			
Chromium	**70.2**	---	2.75	mg/kg dry	10	"	EPA 6020	
Lead	**6.55**	---	1.38	"	"	"	"	
Silver	ND	---	1.38	"	"	"	"	
PNT-110902-39-A (A11I063-26)			**Matrix: Soil**		**Batch: 1109184**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/13/11 13:10	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**69.0**	---	2.56	"	"	"	"	
Lead	**47.1**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
PNT-110902-39-B (A11I063-27)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/26/11 16:46	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**68.3**	---	2.44	"	"	"	"	
Lead	**33.8**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
PNT-110902-39-C (A11I063-28)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.41	mg/kg dry	10	09/26/11 16:49	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**59.8**	---	2.41	"	"	"	"	
Lead	**31.9**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
PNT-110902-38-A (A11I063-29)			**Matrix: Soil**		**Batch: 1109184**			
Arsenic	ND	---	2.55	mg/kg dry	10	09/13/11 13:13	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**69.3**	---	2.55	"	"	"	"	
Lead	**17.4**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
PNT-110902-38-B (A11I063-30)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/26/11 17:01	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**73.8**	---	2.63	"	"	"	"	
Lead	**10.8**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
PNT-110902-38-C (A11I063-31)			**Matrix: Soil**		**Batch: 1109418**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-38-C (A11I063-31)			**Matrix: Soil**		**Batch: 1109418**			
Arsenic	ND	---	2.62	mg/kg dry	10	09/26/11 17:03	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**74.0**	---	2.62	"	"	"	"	
Lead	**7.49**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
PNT-110907-13-A (A11I095-01)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.41	mg/kg dry	10	09/14/11 18:42	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**59.0**	---	2.41	"	"	"	"	
Lead	**67.4**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
PNT-110907-13-B (A11I095-02)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/27/11 12:40	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**85.1**	---	2.63	"	"	"	"	
Lead	**13.2**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
PNT-110907-13-C (A11I095-03)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.61	mg/kg dry	10	09/27/11 12:42	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**88.5**	---	2.61	"	"	"	"	
Lead	**6.56**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
PNT-110907-24-A (A11I095-04)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/14/11 18:45	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**50.0**	---	2.60	"	"	"	"	
Lead	**15.5**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110907-24-B (A11I095-05)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.79	mg/kg dry	10	09/27/11 12:51	EPA 6020	
Cadmium	ND	---	1.40	"	"	"	"	
Chromium	**60.4**	---	2.79	"	"	"	"	
Lead	**10.2**	---	1.40	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110907-24-B (A11I095-05)			**Matrix: Soil**		**Batch: 1109421**			
Silver	ND	---	1.40	mg/kg dry	10	"	EPA 6020	
PNT-110907-24-C (A11I095-06)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/27/11 13:00	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**64.6**	---	2.60	"	"	"	"	
Lead	**7.51**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110907-48S (A11I095-07)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.87	mg/kg dry	10	09/14/11 18:48	EPA 6020	
Cadmium	ND	---	1.43	"	"	"	"	
Chromium	**39.6**	---	2.87	"	"	"	"	
Lead	**7.47**	---	1.43	"	"	"	"	
Silver	ND	---	1.43	"	"	"	"	
PNT-110907-48SD (A11I095-08)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.93	mg/kg dry	10	09/14/11 18:51	EPA 6020	
Cadmium	ND	---	1.46	"	"	"	"	
Chromium	**37.3**	---	2.93	"	"	"	"	
Lead	**7.99**	---	1.46	"	"	"	"	
Silver	ND	---	1.46	"	"	"	"	
PNT-110907-47S (A11I095-09)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.54	mg/kg dry	10	09/14/11 18:54	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**18.8**	---	2.54	"	"	"	"	
Lead	**5.32**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
PNT-110907-46S (A11I095-10)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.89	mg/kg dry	10	09/14/11 19:06	EPA 6020	
Cadmium	ND	---	1.45	"	"	"	"	
Chromium	**19.4**	---	2.89	"	"	"	"	
Lead	**12.3**	---	1.45	"	"	"	"	
Silver	ND	---	1.45	"	"	"	"	
PNT-110907-25-A (A11I095-11)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.48	mg/kg dry	10	09/14/11 19:09	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110907-25-A (A11I095-11)			**Matrix: Soil**		**Batch: 1109199**			
Chromium	**42.1**	---	2.48	mg/kg dry	10	"	EPA 6020	
Lead	**8.85**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
PNT-110907-19-A (A11I095-14)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/14/11 19:12	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**55.4**	---	2.63	"	"	"	"	
Lead	**28.2**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
PNT-110907-19-B (A11I095-15)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/27/11 13:03	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**62.5**	---	2.60	"	"	"	"	
Lead	**14.2**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110907-19-C (A11I095-16)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.70	mg/kg dry	10	09/27/11 13:15	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**58.1**	---	2.70	"	"	"	"	
Lead	**9.77**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
PNT-110907-12-A (A11I095-17)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.50	mg/kg dry	10	09/14/11 19:14	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**36.2**	---	2.50	"	"	"	"	
Lead	**80.6**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
PNT-110907-12-AD (A11I095-18)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.71	mg/kg dry	10	09/27/11 13:18	EPA 6020	
Cadmium	ND	---	1.36	"	"	"	"	
Chromium	**44.7**	---	2.71	"	"	"	"	
Lead	**91.6**	---	1.36	"	"	"	"	
Silver	ND	---	1.36	"	"	"	"	
PNT-110907-12-B (A11I095-19)			**Matrix: Soil**		**Batch: 1109421**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110907-12-B (A11I095-19)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.72	mg/kg dry	10	09/27/11 13:21	EPA 6020	
Cadmium	ND	---	1.36	"	"	"	"	
Chromium	**48.2**	---	2.72	"	"	"	"	
Lead	**27.5**	---	1.36	"	"	"	"	
Silver	ND	---	1.36	"	"	"	"	
PNT-110907-12-C (A11I095-20)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.70	mg/kg dry	10	09/27/11 13:24	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**42.0**	---	2.70	"	"	"	"	
Lead	**25.0**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
PNT-110907-45S (A11I095-21)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	3.01	mg/kg dry	10	09/14/11 19:17	EPA 6020	
Cadmium	ND	---	1.50	"	"	"	"	
Chromium	**34.7**	---	3.01	"	"	"	"	
Lead	**4.41**	---	1.50	"	"	"	"	
Silver	ND	---	1.50	"	"	"	"	
PNT-110906-34-A (A11I096-01)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.57	mg/kg dry	10	09/14/11 19:20	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**44.2**	---	2.57	"	"	"	"	
Lead	**39.0**	---	1.29	"	"	"	"	
Silver	ND	---	1.29	"	"	"	"	
PNT-110906-34-B (A11I096-02)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.71	mg/kg dry	10	09/27/11 13:27	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**54.8**	---	2.71	"	"	"	"	
Lead	**9.13**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
PNT-110906-34-C (A11I096-03)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.98	mg/kg dry	10	09/27/11 13:30	EPA 6020	
Cadmium	ND	---	1.49	"	"	"	"	
Chromium	**74.0**	---	2.98	"	"	"	"	
Lead	**7.39**	---	1.49	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-34-C (A11I096-03)			**Matrix: Soil**		**Batch: 1109421**			
Silver	ND	---	1.49	mg/kg dry	10	"	EPA 6020	
PNT-110906-31-A (A11I096-04)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	**11.6**	---	2.28	mg/kg dry	10	09/14/11 19:23	EPA 6020	
Cadmium	ND	---	1.14	"	"	"	"	
Chromium	**62.7**	---	2.28	"	"	"	"	
Lead	**451**	---	1.14	"	"	"	"	
Silver	ND	---	1.14	"	"	"	"	
PNT-110906-31-AD (A11I096-05)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	**11.0**	---	2.55	mg/kg dry	10	09/27/11 13:33	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**68.9**	---	2.55	"	"	"	"	
Lead	**326**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
PNT-110906-31-B (A11I096-06)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.95	mg/kg dry	10	09/27/11 13:35	EPA 6020	
Cadmium	ND	---	1.47	"	"	"	"	
Chromium	**60.1**	---	2.95	"	"	"	"	
Lead	**8.87**	---	1.47	"	"	"	"	
Silver	ND	---	1.47	"	"	"	"	
PNT-110906-31-C (A11I096-07)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	3.15	mg/kg dry	10	09/27/11 13:38	EPA 6020	
Cadmium	ND	---	1.58	"	"	"	"	
Chromium	**56.7**	---	3.15	"	"	"	"	
Lead	**7.80**	---	1.58	"	"	"	"	
Silver	ND	---	1.58	"	"	"	"	
PNT-110906-42-A (A11I096-08)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/14/11 19:26	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**35.6**	---	2.36	"	"	"	"	
Lead	**16.4**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
PNT-110906-44-A (A11I096-11)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/14/11 19:41	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	

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Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-44-A (A11I096-11)			**Matrix: Soil**		**Batch: 1109199**			
Chromium	**92.5**	---	2.44	mg/kg dry	10	"	EPA 6020	
Lead	**22.9**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
PNT-110906-44-B (A11I096-12)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.58	mg/kg dry	10	09/27/11 13:50	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**102**	---	2.58	"	"	"	"	
Lead	**13.3**	---	1.29	"	"	"	"	
Silver	ND	---	1.29	"	"	"	"	
PNT-110906-44-C (A11I096-13)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.49	mg/kg dry	10	09/27/11 13:53	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**86.7**	---	2.49	"	"	"	"	
Lead	**7.44**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
PNT-110906-41-A (A11I096-14)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.71	mg/kg dry	10	09/14/11 20:34	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**67.2**	---	2.71	"	"	"	"	
Lead	**33.1**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
PNT-110906-41-B (A11I096-15)			**Matrix: Soil**		**Batch: 1109421**			
Arsenic	ND	---	2.38	mg/kg dry	10	09/27/11 13:56	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**52.8**	---	2.38	"	"	"	"	
Lead	**9.27**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
PNT-110906-41-C (A11I096-16)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/27/11 14:11	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**66.7**	---	2.44	"	"	"	"	
Lead	**8.52**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
PNT-110906-36-A (A11I096-17)			**Matrix: Soil**		**Batch: 1109202**			

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-36-A (A11I096-17)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.90	mg/kg dry	10	09/14/11 20:36	EPA 6020	
Cadmium	ND	---	1.45	"	"	"	"	
Chromium	**57.9**	---	2.90	"	"	"	"	
Lead	**54.6**	---	1.45	"	"	"	"	
Silver	ND	---	1.45	"	"	"	"	
PNT-110906-36-B (A11I096-18)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.70	mg/kg dry	10	09/27/11 14:14	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**72.0**	---	2.70	"	"	"	"	
Lead	**8.42**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
PNT-110906-36-C (A11I096-19)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.47	mg/kg dry	10	09/27/11 14:46	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**65.0**	---	2.47	"	"	"	"	
Lead	**7.64**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
PNT-110906-21-A (A11I096-20)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	**2.61**	---	2.55	mg/kg dry	10	09/14/11 20:39	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**54.1**	---	2.55	"	"	"	"	
Lead	**10.8**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
PNT-110906-21-B (A11I096-21)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	**3.04**	---	2.34	mg/kg dry	10	09/27/11 14:49	EPA 6020	
Cadmium	ND	---	1.17	"	"	"	"	
Chromium	**64.8**	---	2.34	"	"	"	"	
Lead	**8.84**	---	1.17	"	"	"	"	
Silver	ND	---	1.17	"	"	"	"	
PNT-110906-21-C (A11I096-22)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	**3.57**	---	2.51	mg/kg dry	10	09/27/11 15:42	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**75.0**	---	2.51	"	"	"	"	
Lead	**9.68**	---	1.25	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-21-C (A11I096-22)			**Matrix: Soil**		**Batch: 1109432**			
Silver	ND	---	1.25	mg/kg dry	10	"	EPA 6020	
PNT-110906-09-A (A11I096-23)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.85	mg/kg dry	10	09/14/11 20:51	EPA 6020	
Cadmium	ND	---	1.43	"	"	"	"	
Chromium	**45.4**	---	2.85	"	"	"	"	
Lead	**9.57**	---	1.43	"	"	"	"	
Silver	ND	---	1.43	"	"	"	"	
PNT-110906-09-B (A11I096-24)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.45	mg/kg dry	10	09/27/11 15:45	EPA 6020	
Cadmium	ND	---	1.23	"	"	"	"	
Chromium	**56.2**	---	2.45	"	"	"	"	
Lead	**12.4**	---	1.23	"	"	"	"	
Silver	ND	---	1.23	"	"	"	"	
PNT-110906-09-C (A11I096-25)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.50	mg/kg dry	10	09/27/11 15:48	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**54.5**	---	2.50	"	"	"	"	
Lead	**8.58**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
PNT-110906-16-A (A11I096-26)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/14/11 21:00	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**53.0**	---	2.40	"	"	"	"	
Lead	**10.1**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
PNT-110906-16-B (A11I096-27)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/27/11 15:51	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**52.2**	---	2.44	"	"	"	"	
Lead	**7.70**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
PNT-110906-16-C (A11I096-28)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.48	mg/kg dry	10	09/27/11 15:54	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-16-C (A11I096-28)			**Matrix: Soil**		**Batch: 1109432**			
Chromium	**50.5**	---	2.48	mg/kg dry	10	"	EPA 6020	
Lead	**7.41**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
PNT-110906-10-A (A11I096-29)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.97	mg/kg dry	10	09/14/11 21:03	EPA 6020	
Cadmium	ND	---	1.48	"	"	"	"	
Chromium	**51.4**	---	2.97	"	"	"	"	
Lead	**20.7**	---	1.48	"	"	"	"	
Silver	ND	---	1.48	"	"	"	"	
PNT-110906-10-B (A11I096-30)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.61	mg/kg dry	10	09/27/11 15:57	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**66.7**	---	2.61	"	"	"	"	
Lead	**7.43**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110906-10-C (A11I096-31)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.97	mg/kg dry	10	09/27/11 16:00	EPA 6020	
Cadmium	ND	---	1.48	"	"	"	"	
Chromium	**54.6**	---	2.97	"	"	"	"	
Lead	**6.13**	---	1.48	"	"	"	"	
Silver	ND	---	1.48	"	"	"	"	
PNT-110906-33-A (A11I096-32)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.74	mg/kg dry	10	09/14/11 21:06	EPA 6020	
Cadmium	ND	---	1.37	"	"	"	"	
Chromium	**78.5**	---	2.74	"	"	"	"	
Lead	**17.6**	---	1.37	"	"	"	"	
Silver	ND	---	1.37	"	"	"	"	
PNT-110906-33-B (A11I096-33)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.75	mg/kg dry	10	09/27/11 16:02	EPA 6020	
Cadmium	ND	---	1.37	"	"	"	"	
Chromium	**92.1**	---	2.75	"	"	"	"	
Lead	**7.60**	---	1.37	"	"	"	"	
Silver	ND	---	1.37	"	"	"	"	
PNT-110906-33-C (A11I096-34)			**Matrix: Soil**		**Batch: 1109432**			

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-33-C (A11I096-34)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.84	mg/kg dry	10	09/27/11 16:05	EPA 6020	
Cadmium	ND	---	1.42	"	"	"	"	
Chromium	**98.3**	---	2.84	"	"	"	"	
Lead	**6.23**	---	1.42	"	"	"	"	
Silver	ND	---	1.42	"	"	"	"	
PNT-110906-08-A (A11I096-35)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.57	mg/kg dry	10	09/14/11 21:09	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**69.3**	---	2.57	"	"	"	"	
Lead	**19.8**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
PNT-110906-08-AD (A11I096-36)			**Matrix: Soil**		**Batch: 1109529**			
Arsenic	ND	---	2.41	mg/kg dry	10	09/30/11 14:29	EPA 6020	
Chromium	**78.8**	---	2.41	"	"	"	"	
Lead	**18.2**	---	1.20	"	"	"	"	
PNT-110906-08-B (A11I096-37)			**Matrix: Soil**		**Batch: 1109529**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/30/11 14:32	EPA 6020	
Chromium	**78.5**	---	2.63	"	"	"	"	
Lead	**10.0**	---	1.31	"	"	"	"	
PNT-110906-08-C (A11I096-38)			**Matrix: Soil**		**Batch: 1109529**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/30/11 14:45	EPA 6020	
Chromium	**74.2**	---	2.63	"	"	"	"	
Lead	**27.7**	---	1.32	"	"	"	"	
PNT-110906-07-A (A11I096-39)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/14/11 21:12	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**67.4**	---	2.53	"	"	"	"	
Lead	**9.63**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
PNT-110906-07-B (A11I096-40)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.91	mg/kg dry	10	09/27/11 16:17	EPA 6020	
Cadmium	ND	---	1.45	"	"	"	"	
Chromium	**81.6**	---	2.91	"	"	"	"	
Lead	**7.68**	---	1.45	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-07-B (A11I096-40)			**Matrix: Soil**		**Batch: 1109432**			
Silver	ND	---	1.45	mg/kg dry	10	"	EPA 6020	
PNT-110906-07-C (A11I096-41)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.73	mg/kg dry	10	09/27/11 16:20	EPA 6020	
Cadmium	ND	---	1.37	"	"	"	"	
Chromium	**87.3**	---	2.73	"	"	"	"	
Lead	**9.93**	---	1.37	"	"	"	"	
Silver	ND	---	1.37	"	"	"	"	
PNT-110906-14-A (A11I096-42)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.30	mg/kg dry	10	09/14/11 21:15	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**60.8**	---	2.30	"	"	"	"	
Lead	**10.4**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
PNT-110906-14-B (A11I096-43)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.58	mg/kg dry	10	09/27/11 16:23	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**66.3**	---	2.58	"	"	"	"	
Lead	**8.64**	---	1.29	"	"	"	"	
Silver	ND	---	1.29	"	"	"	"	
PNT-110906-14-C (A11I096-44)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/27/11 16:26	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**65.9**	---	2.60	"	"	"	"	
Lead	**7.54**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110906-20-A (A11I096-45)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/14/11 21:26	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**64.6**	---	2.60	"	"	"	"	
Lead	**19.1**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
PNT-110906-20-B (A11I096-46)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.67	mg/kg dry	10	09/27/11 16:29	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-20-B (A11I096-46)			**Matrix: Soil**		**Batch: 1109432**			
Chromium	**66.3**	---	2.67	mg/kg dry	10	"	EPA 6020	
Lead	**7.46**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	
PNT-110906-20-C (A11I096-47)			**Matrix: Soil**		**Batch: 1109432**			
Arsenic	ND	---	2.48	mg/kg dry	10	09/27/11 16:32	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**72.1**	---	2.48	"	"	"	"	
Lead	**7.13**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
PNT-110930-12-D (A11J011-01)			**Matrix: Soil**		**Batch: 1110102**			
Arsenic	ND	---	2.43	mg/kg dry	10	10/07/11 11:02	EPA 6020	
Chromium	**36.2**	---	2.43	"	"	"	"	
Lead	**5.69**	---	1.22	"	"	"	"	
PNT-110930-12-E (A11J011-02)			**Matrix: Soil**		**Batch: 1110102**			
Arsenic	ND	---	2.31	mg/kg dry	10	10/07/11 11:14	EPA 6020	
Chromium	**42.6**	---	2.31	"	"	"	"	
Lead	**8.64**	---	1.15	"	"	"	"	
PNT-110930-29-D (A11J011-04)			**Matrix: Soil**		**Batch: 1110102**			
Arsenic	ND	---	3.10	mg/kg dry	10	10/07/11 11:16	EPA 6020	
Chromium	**42.2**	---	3.10	"	"	"	"	
Lead	**25.5**	---	1.55	"	"	"	"	
PNT-110930-29-E (A11J011-05)			**Matrix: Soil**		**Batch: 1110102**			
Arsenic	ND	---	3.56	mg/kg dry	10	10/07/11 11:19	EPA 6020	
Chromium	**42.3**	---	3.56	"	"	"	"	
Lead	**36.0**	---	1.78	"	"	"	"	
PNT-110930-29-F (A11J011-06)			**Matrix: Soil**		**Batch: 1110213**			
Arsenic	ND	---	3.11	mg/kg dry	10	10/14/11 15:33	EPA 6020	
Chromium	**43.5**	---	3.11	"	"	"	"	
Lead	**20.9**	---	1.56	"	"	"	"	
PNT-110930-58-A (A11J011-07)			**Matrix: Soil**		**Batch: 1110102**			
Arsenic	ND	---	2.56	mg/kg dry	10	10/07/11 11:22	EPA 6020	
Chromium	**58.1**	---	2.56	"	"	"	"	
Lead	**20.4**	---	1.28	"	"	"	"	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110930-58-B (A11J011-08)			**Matrix: Soil**		**Batch: 1110213**			
Arsenic	ND	---	2.49	mg/kg dry	10	10/14/11 15:36	EPA 6020	
Chromium	**81.6**	---	2.49	"	"	"	"	
Lead	**10.3**	---	1.25	"	"	"	"	
PNT-110930-57-A (A11J011-10)			**Matrix: Soil**		**Batch: 1110102**			
Arsenic	ND	---	2.38	mg/kg dry	10	10/07/11 11:25	EPA 6020	
Chromium	**40.1**	---	2.38	"	"	"	"	
Lead	**10.6**	---	1.19	"	"	"	"	
PNT-110930-57-AD (A11J011-11)			**Matrix: Soil**		**Batch: 1110102**			
Arsenic	**2.35**	---	2.26	mg/kg dry	10	10/07/11 11:28	EPA 6020	
Chromium	**40.6**	---	2.26	"	"	"	"	
Lead	**10.4**	---	1.13	"	"	"	"	
PNT-111003-52-A (A11J032-01)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	**2.55**	---	2.48	mg/kg dry	10	10/07/11 12:02	EPA 6020	
Chromium	**47.3**	---	2.48	"	"	"	"	
Lead	**22.1**	---	1.24	"	"	"	"	
PNT-111003-53-A (A11J032-04)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.60	mg/kg dry	10	10/07/11 12:05	EPA 6020	
Chromium	**40.2**	---	2.60	"	"	"	"	
Lead	**10.4**	---	1.30	"	"	"	"	
PNT-111003-35-D (A11J032-07)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.35	mg/kg dry	10	10/07/11 12:08	EPA 6020	
Chromium	**52.9**	---	2.35	"	"	"	"	
Lead	**5.35**	---	1.18	"	"	"	"	
PNT-111003-35-E (A11J032-08)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.41	mg/kg dry	10	10/07/11 12:17	EPA 6020	
Chromium	**41.2**	---	2.41	"	"	"	"	
Lead	**3.92**	---	1.20	"	"	"	"	
PNT-111003-39-D (A11J032-10)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.45	mg/kg dry	10	10/07/11 12:20	EPA 6020	
Chromium	**65.6**	---	2.45	"	"	"	"	
Lead	**28.4**	---	1.22	"	"	"	"	
PNT-111003-39-E (A11J032-11)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.53	mg/kg dry	10	10/07/11 12:32	EPA 6020	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-111003-39-E (A11J032-11)			**Matrix: Soil**		**Batch: 1110113**			
Chromium	**90.7**	---	2.53	mg/kg dry	10	"	EPA 6020	
Lead	**12.7**	---	1.26	"	"	"	"	
PNT-111003-51-A (A11J032-13)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.80	mg/kg dry	10	10/07/11 12:35	EPA 6020	
Chromium	**70.6**	---	2.80	"	"	"	"	
Lead	**19.7**	---	1.40	"	"	"	"	
PNT-111003-50-A (A11J032-16)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.52	mg/kg dry	10	10/07/11 12:37	EPA 6020	
Chromium	**66.9**	---	2.52	"	"	"	"	
Lead	**41.3**	---	1.26	"	"	"	"	
PNT-111003-50-AD (A11J032-17)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.55	mg/kg dry	10	10/07/11 12:40	EPA 6020	
Chromium	**66.7**	---	2.55	"	"	"	"	
Lead	**45.2**	---	1.27	"	"	"	"	
PNT-111003-50-B (A11J032-18)			**Matrix: Soil**		**Batch: 1110232**			
Arsenic	**2.44**	---	2.40	mg/kg dry	10	10/14/11 16:49	EPA 6020	
Chromium	**72.2**	---	2.40	"	"	"	"	
Lead	**16.5**	---	1.20	"	"	"	"	
PNT-111003-49-A (A11J032-20)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.68	mg/kg dry	10	10/11/11 14:48	EPA 6020	
Chromium	**53.1**	---	5.36	"	"	"	"	
Lead	**7.55**	---	1.34	"	"	"	"	
PNT-111003-54-A (A11J032-23)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.66	mg/kg dry	10	10/11/11 14:57	EPA 6020	
Chromium	**87.7**	---	5.33	"	"	"	"	
Lead	**6.70**	---	1.33	"	"	"	"	
PNT-111003-55-A (A11J032-26)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.61	mg/kg dry	10	10/11/11 15:09	EPA 6020	
Chromium	**76.4**	---	5.22	"	"	"	"	
Lead	**7.12**	---	1.30	"	"	"	"	
PNT-111003-56-A (A11J032-29)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.42	mg/kg dry	10	10/11/11 15:12	EPA 6020	
Chromium	**40.9**	---	4.83	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-111003-56-A (A11J032-29)			**Matrix: Soil**		**Batch: 1110136**			
Lead	**13.3**	---	1.21	mg/kg dry	10	"	EPA 6020	
PNT-111004-03-C (A11J052-01)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.85	mg/kg dry	10	10/11/11 16:09	EPA 6020	
Chromium	**56.7**	---	5.70	"	"	"	"	
Lead	**7.62**	---	1.43	"	"	"	"	
PNT-111004-03-D (A11J052-02)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	3.00	mg/kg dry	10	10/11/11 16:21	EPA 6020	
Chromium	**60.9**	---	6.00	"	"	"	"	
Lead	**9.40**	---	1.50	"	"	"	"	
PNT-111004-28-D (A11J052-05)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.83	mg/kg dry	10	10/11/11 16:24	EPA 6020	
Chromium	**57.5**	---	5.67	"	"	"	"	
Lead	**12.1**	---	1.42	"	"	"	"	
PNT-111004-28-E (A11J052-06)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.67	mg/kg dry	10	10/11/11 16:27	EPA 6020	
Chromium	**45.9**	---	5.33	"	"	"	"	
Lead	**11.5**	---	1.33	"	"	"	"	
PNT-111004-04-D (A11J052-09)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.87	mg/kg dry	10	10/11/11 16:30	EPA 6020	
Chromium	**54.2**	---	5.74	"	"	"	"	
Lead	**22.8**	---	1.43	"	"	"	"	
PNT-111004-04-E (A11J052-10)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.65	mg/kg dry	10	10/11/11 16:48	EPA 6020	
Chromium	**58.7**	---	2.65	"	"	"	"	
Lead	**21.7**	---	1.33	"	"	"	"	
PNT-111004-05-D (A11J052-12)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.54	mg/kg dry	10	10/11/11 16:36	EPA 6020	
Chromium	**50.4**	---	5.07	"	"	"	"	
Lead	**26.3**	---	1.27	"	"	"	"	
PNT-111004-05-E (A11J052-13)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.58	mg/kg dry	10	10/11/11 16:39	EPA 6020	
Chromium	**54.1**	---	5.16	"	"	"	"	
Lead	**36.0**	---	1.29	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-111004-06-C (A11J052-15)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.91	mg/kg dry	10	10/11/11 16:42	EPA 6020	
Chromium	**72.5**	---	5.81	"	"	"	"	
Lead	**62.6**	---	1.45	"	"	"	"	
PNT-111004-06-D (A11J052-16)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.72	mg/kg dry	10	10/11/11 16:45	EPA 6020	
Chromium	**55.1**	---	5.43	"	"	"	"	
Lead	**14.0**	---	1.36	"	"	"	"	
PNT-111004-08-D (A11J052-19)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.96	mg/kg dry	10	10/12/11 17:14	EPA 6020	
Chromium	**77.3**	---	2.96	"	"	"	"	
Lead	**14.2**	---	1.48	"	"	"	"	
PNT-111004-08-DD (A11J052-20)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.87	mg/kg dry	10	10/12/11 17:18	EPA 6020	
Chromium	**59.2**	---	2.87	"	"	"	"	
Lead	**11.9**	---	1.43	"	"	"	"	
PNT-111004-08-E (A11J052-21)			**Matrix: Soil**		**Batch: 1110136**			
Arsenic	ND	---	2.63	mg/kg dry	10	10/12/11 17:21	EPA 6020	
Chromium	**65.7**	---	2.63	"	"	"	"	
Lead	**9.83**	---	1.31	"	"	"	"	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-01-A (A11I031-01)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**84.0**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-01-B (A11I031-02)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**81.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110901-01-C (A11I031-03)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**81.1**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110901-15-A (A11I031-04)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**80.7**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-15-B (A11I031-05)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**81.7**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-15-C (A11I031-06)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**81.1**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-22-A (A11I031-07)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**81.8**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-11-A (A11I031-10)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**79.2**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-11-AD (A11I031-11)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**79.0**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-11-B (A11I031-12)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**78.8**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-11-C (A11I031-13)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**77.6**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-23-A (A11I031-14)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-18-A (A11I031-17)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**74.4**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-18-B (A11I031-18)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-18-C (A11I031-19)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**76.5**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-17-A (A11I031-20)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**79.1**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-17-B (A11I031-21)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**78.2**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-17-C (A11I031-22)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**80.0**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-02-A (A11I031-23)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-02-B (A11I031-24)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**78.8**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-02-C (A11I031-25)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**77.7**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-27-A (A11I031-26)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**78.3**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-27-B (A11I031-27)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**75.6**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-27-C (A11I031-28)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**75.5**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-26-A (A11I031-29)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**79.7**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-26-B (A11I031-30)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**76.5**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-26-C (A11I031-31)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**78.0**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-03-A (A11I031-32)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**85.0**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-03-AD (A11I031-33)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**87.8**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-03-B (A11I031-34)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**74.3**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-28-A (A11I031-35)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**81.9**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-28-B (A11I031-36)			**Matrix: Soil**		**Batch: 1109508**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110901-28-B (A11I031-36)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**71.5**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-28-C (A11I031-37)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**71.0**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-04-A (A11I031-38)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**90.2**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-04-AD (A11I031-39)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**89.9**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-04-B (A11I031-40)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**78.4**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-04-C (A11I031-41)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**73.2**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-05-A (A11I031-42)			**Matrix: Soil**		**Batch: 1109065**			
% Solids	**85.9**	---	1.00	% by Weight	1	09/07/11 10:25	Apex SOP	
PNT-110901-05-B (A11I031-43)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**86.6**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110901-05-C (A11I031-44)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**75.7**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110902-29-A (A11I063-01)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**94.3**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-29-B (A11I063-02)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-29-C (A11I063-03)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**68.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-30-A (A11I063-04)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**84.1**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-30-B (A11I063-05)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**76.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-30-C (A11I063-06)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**76.9**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-06-A (A11I063-07)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**88.0**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-06-B (A11I063-08)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.6**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-06-C (A11I063-09)			**Matrix: Soil**		**Batch: 1109550**			
% Solids	**73.2**	---	1.00	% by Weight	1	10/03/11 11:32	Apex SOP	
PNT-110902-37-A (A11I063-10)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**77.8**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-37-B (A11I063-11)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**78.9**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-37-C (A11I063-12)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**74.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-32-A (A11I063-13)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**75.4**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-32-B (A11I063-14)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**74.5**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-32-C (A11I063-15)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**74.4**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-35-A (A11I063-16)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**76.3**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-35-B (A11I063-17)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**78.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-35-C (A11I063-18)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.5**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-40-A (A11I063-19)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**81.0**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-40-B (A11I063-20)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**84.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-40-BD (A11I063-21)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**82.5**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-40-C (A11I063-22)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**86.6**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-43-A (A11I063-23)			**Matrix: Soil**		**Batch: 1109092**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110902-43-A (A11I063-23)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**79.9**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-43-B (A11I063-24)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**76.4**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-43-C (A11I063-25)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**76.2**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-39-A (A11I063-26)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**79.7**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-39-B (A11I063-27)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.0**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-39-C (A11I063-28)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**78.6**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-38-A (A11I063-29)			**Matrix: Soil**		**Batch: 1109092**			
% Solids	**78.7**	---	1.00	% by Weight	1	09/08/11 09:56	Apex SOP	
PNT-110902-38-B (A11I063-30)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**78.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110902-38-C (A11I063-31)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**74.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-13-A (A11I095-01)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-13-B (A11I095-02)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**78.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-13-C (A11I095-03)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.0**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-24-A (A11I095-04)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**78.6**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-24-B (A11I095-05)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.5**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-24-C (A11I095-06)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.4**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-48S (A11I095-07)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**66.9**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110907-48SD (A11I095-08)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**68.2**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-47S (A11I095-09)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**76.4**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-46S (A11I095-10)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**70.8**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-25-A (A11I095-11)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**81.6**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-19-A (A11I095-14)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**78.3**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-19-B (A11I095-15)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-19-C (A11I095-16)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**75.0**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-12-A (A11I095-17)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**82.6**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110907-12-AD (A11I095-18)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-12-B (A11I095-19)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**78.1**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-12-C (A11I095-20)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**79.8**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110907-45S (A11I095-21)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**65.2**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-34-A (A11I096-01)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**78.3**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-34-B (A11I096-02)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-34-C (A11I096-03)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**73.8**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-31-A (A11I096-04)			**Matrix: Soil**		**Batch: 1109113**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-31-A (A11I096-04)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**85.6**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-31-AD (A11I096-05)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**86.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-31-B (A11I096-06)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**73.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-31-C (A11I096-07)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**61.6**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-42-A (A11I096-08)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**85.9**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-44-A (A11I096-11)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**81.1**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-44-B (A11I096-12)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**79.2**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-44-C (A11I096-13)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.5**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-41-A (A11I096-14)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**77.9**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-41-B (A11I096-15)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-41-C (A11I096-16)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**79.6**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-36-A (A11I096-17)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**78.5**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-36-B (A11I096-18)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**79.9**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-36-C (A11I096-19)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**81.9**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-21-A (A11I096-20)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-21-B (A11I096-21)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.8**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-21-C (A11I096-22)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.9**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-09-A (A11I096-23)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**78.4**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-09-B (A11I096-24)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**79.3**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-09-C (A11I096-25)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**78.6**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-16-A (A11I096-26)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**74.2**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-16-B (A11I096-27)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**81.0**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-16-C (A11I096-28)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-10-A (A11I096-29)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**75.7**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-10-B (A11I096-30)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**74.6**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-10-C (A11I096-31)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**73.2**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-33-A (A11I096-32)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**76.7**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-33-B (A11I096-33)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**73.2**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-33-C (A11I096-34)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**72.9**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-08-A (A11I096-35)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**80.5**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-08-AD (A11I096-36)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110906-08-B (A11I096-37)			**Matrix: Soil**		**Batch: 1109508**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110906-08-B (A11I096-37)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**78.0**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110906-08-C (A11I096-38)			**Matrix: Soil**		**Batch: 1109508**			
% Solids	**75.3**	---	1.00	% by Weight	1	09/30/11 11:46	Apex SOP	
PNT-110906-07-A (A11I096-39)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**78.0**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-07-B (A11I096-40)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**75.4**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-07-C (A11I096-41)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**75.0**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-14-A (A11I096-42)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**80.2**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-14-B (A11I096-43)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-14-C (A11I096-44)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**77.7**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-20-A (A11I096-45)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**80.9**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
PNT-110906-20-B (A11I096-46)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.4**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110906-20-C (A11I096-47)			**Matrix: Soil**		**Batch: 1109426**			
% Solids	**80.0**	---	1.00	% by Weight	1	09/27/11 10:25	Apex SOP	
PNT-110930-12-D (A11J011-01)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**82.6**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
PNT-110930-12-E (A11J011-02)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**82.0**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
PNT-110930-29-D (A11J011-04)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**66.0**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
PNT-110930-29-E (A11J011-05)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**59.8**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
PNT-110930-29-F (A11J011-06)			**Matrix: Soil**		**Batch: 1110200**			
% Solids	**63.6**	---	1.00	% by Weight	1	10/12/11 09:49	Apex SOP	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-110930-58-A (A11J011-07)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**83.4**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
PNT-110930-58-B (A11J011-08)			**Matrix: Soil**		**Batch: 1110200**			
% Solids	**77.1**	---	1.00	% by Weight	1	10/12/11 09:49	Apex SOP	
PNT-110930-57-A (A11J011-10)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**87.7**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
PNT-110930-57-AD (A11J011-11)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**87.6**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
PNT-111003-52-A (A11J032-01)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**81.5**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-53-A (A11J032-04)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**83.4**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-35-D (A11J032-07)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**84.0**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-35-E (A11J032-08)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**82.4**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-39-D (A11J032-10)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**82.1**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-39-E (A11J032-11)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**78.4**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-51-A (A11J032-13)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**75.7**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-50-A (A11J032-16)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**81.0**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-50-AD (A11J032-17)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**80.1**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-50-B (A11J032-18)			**Matrix: Soil**		**Batch: 1110225**			
% Solids	**79.5**	---	1.00	% by Weight	1	10/13/11 11:13	Apex SOP	
PNT-111003-49-A (A11J032-20)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**79.0**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-54-A (A11J032-23)			**Matrix: Soil**		**Batch: 1110069**			

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-111003-54-A (A11J032-23)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**79.4**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-55-A (A11J032-26)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**78.7**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111003-56-A (A11J032-29)			**Matrix: Soil**		**Batch: 1110069**			
% Solids	**84.6**	---	1.00	% by Weight	1	10/06/11 11:41	Apex SOP	
PNT-111004-03-C (A11J052-01)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**73.4**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-03-D (A11J052-02)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**72.5**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-28-D (A11J052-05)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**70.0**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-28-E (A11J052-06)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**72.0**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-04-D (A11J052-09)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**73.7**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-04-E (A11J052-10)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**75.6**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-05-D (A11J052-12)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**75.8**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-05-E (A11J052-13)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**73.8**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-06-C (A11J052-15)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**74.8**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-06-D (A11J052-16)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**71.1**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-08-D (A11J052-19)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**74.6**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-08-DD (A11J052-20)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**74.8**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	
PNT-111004-08-E (A11J052-21)			**Matrix: Soil**		**Batch: 1110096**			
% Solids	**74.6**	---	1.00	% by Weight	1	10/07/11 10:03	Apex SOP	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109111 - EPA 3051A							**Soil**					
Blank (1109111-BLK1)					Prepared: 09/08/11 09:47		Analyzed: 09/12/11 12:52					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109111-BS1)					Prepared: 09/08/11 09:47		Analyzed: 09/12/11 12:55					
EPA 6020												
Arsenic	49.8	---	2.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Cadmium	50.5	---	1.00	"	"	"	---	101	"	---	---	
Chromium	50.9	---	2.00	"	"	"	---	102	"	---	---	
Lead	50.6	---	1.00	"	"	"	---	101	"	---	---	
Silver	25.8	---	1.00	"	"	25.0	---	103	"	---	---	
Matrix Spike (1109111-MS2)					Prepared: 09/08/11 09:47		Analyzed: 09/12/11 14:20					
QC Source Sample: PNT-110901-18-A (A11I031-17)												
EPA 6020												
Arsenic	63.9	---	2.81	mg/kg dry	10	70.2	2.03	88	75-125%	---	---	
Cadmium	70.1	---	1.40	"	"	"	0.548	99	"	---	---	
Chromium	107	---	2.81	"	"	"	43.5	91	"	---	---	
Lead	158	---	1.40	"	"	"	106	73	"	---	---	Q-01
Silver	34.8	---	1.40	"	"	35.0	ND	99	"	---	---	
Post Spike (1109111-PS2)					Prepared: 09/12/11 14:26		Analyzed: 09/12/11 14:37					
QC Source Sample: PNT-110901-18-A (A11I031-17)												
EPA 6020												
Lead	1250	---		ug/L	10	476	794	95	80-120%		---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109132 - EPA 3051A							**Soil**					
Blank (1109132-BLK1)					Prepared: 09/08/11 17:28		Analyzed: 09/09/11 12:35					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109132-BS1)					Prepared: 09/08/11 17:28		Analyzed: 09/09/11 12:38					
EPA 6020												
Arsenic	48.6	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Cadmium	50.0	---	1.00	"	"	"	---	100	"	---	---	
Chromium	50.7	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.5	---	1.00	"	"	"	---	103	"	---	---	
Silver	26.1	---	1.00	"	"	25.0	---	104	"	---	---	
Duplicate (1109132-DUP1)					Prepared: 09/08/11 17:28		Analyzed: 09/12/11 14:47					
QC Source Sample: PNT-110901-02-A (A11I031-23)												
EPA 6020												
Arsenic	ND	---	2.54	mg/kg dry	10	---	1.70	---	---	***	40%	
Cadmium	ND	---	1.27	"	"	---	0.542	---	---	***	40%	
Chromium	**51.3**	---	2.54	"	"	---	47.1	---	---	9	40%	
Lead	**106**	---	1.27	"	"	---	81.8	---	---	26	40%	
Silver	ND	---	1.27	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109132-MS1)					Prepared: 09/08/11 17:28		Analyzed: 09/12/11 14:50					
QC Source Sample: PNT-110901-02-A (A11I031-23)												
EPA 6020												
Arsenic	61.4	---	2.62	mg/kg dry	10	65.6	1.70	91	75-125%	---	---	
Cadmium	71.3	---	1.31	"	"	"	0.542	108	"	---	---	
Chromium	116	---	2.62	"	"	"	47.1	105	"	---	---	
Lead	163	---	1.31	"	"	"	81.8	125	"	---	---	
Silver	35.7	---	1.31	"	"	32.7	ND	109	"	---	---	
Matrix Spike (1109132-MS2)					Prepared: 09/08/11 17:28		Analyzed: 09/12/11 15:21					
QC Source Sample: PNT-110901-05-A (A11I031-42)												

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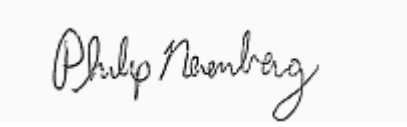

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109132 - EPA 3051A							**Soil**					
Matrix Spike (1109132-MS2)					Prepared: 09/08/11 17:28		Analyzed: 09/12/11 15:21					
QC Source Sample: PNT-110901-05-A (A11I031-42)												
EPA 6020												
Arsenic	53.9	---	2.21	mg/kg dry	10	55.3	3.88	91	75-125%	---	---	
Cadmium	53.4	---	1.10	"	"	"	0.380	96	"	---	---	
Chromium	88.1	---	2.21	"	"	"	39.7	87	"	---	---	
Lead	1010	---	1.10	"	"	"	913	181	"	---	---	Q-03
Silver	27.4	---	1.10	"	"	27.6	0.115	99	"	---	---	
Post Spike (1109132-PS1)					Prepared: 09/12/11 15:26		Analyzed: 09/12/11 15:32					
QC Source Sample: PNT-110901-05-A (A11I031-42)												
EPA 6020												
Lead	1240	---		ug/L	10	476	756	102	80-120%		---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109164 - EPA 3051A							**Soil**					
Blank (1109164-BLK1)					Prepared: 09/12/11 08:46		Analyzed: 09/12/11 15:36					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109164-BS1)					Prepared: 09/12/11 08:46		Analyzed: 09/12/11 15:39					
EPA 6020												
Arsenic	46.7	---	2.00	mg/kg wet	10	50.0	---	93	80-120%	---	---	
Cadmium	49.1	---	1.00	"	"	"	---	98	"	---	---	
Chromium	48.6	---	2.00	"	"	"	---	97	"	---	---	
Lead	49.6	---	1.00	"	"	"	---	99	"	---	---	
Silver	25.1	---	1.00	"	"	25.0	---	101	"	---	---	
Duplicate (1109164-DUP1)					Prepared: 09/12/11 08:46		Analyzed: 09/12/11 19:38					
QC Source Sample: PNT-110902-37-A (A11I063-10)												
EPA 6020												
Arsenic	ND	---	2.74	mg/kg dry	10	---	1.20	---	---	***	40%	
Cadmium	ND	---	1.37	"	"	---	0.517	---	---	***	40%	
Chromium	**59.9**	---	2.74	"	"	---	55.1	---	---	8	40%	
Lead	**10.5**	---	1.37	"	"	---	10.5	---	---	0.2	40%	
Silver	ND	---	1.37	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109164-MS1)					Prepared: 09/12/11 08:46		Analyzed: 09/12/11 19:41					
QC Source Sample: PNT-110902-37-A (A11I063-10)												
EPA 6020												
Arsenic	61.0	---	2.75	mg/kg dry	10	68.7	1.20	87	75-125%	---	---	
Cadmium	67.9	---	1.37	"	"	"	0.517	98	"	---	---	
Chromium	130	---	2.75	"	"	"	55.1	109	"	---	---	
Lead	71.5	---	1.37	"	"	"	10.5	89	"	---	---	
Silver	33.6	---	1.37	"	"	34.3	ND	98	"	---	---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109184 - EPA 3051A							**Soil**					
Blank (1109184-BLK1)					Prepared: 09/12/11 14:18		Analyzed: 09/13/11 13:04					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109184-BS1)					Prepared: 09/12/11 14:18		Analyzed: 09/13/11 12:59					
EPA 6020												
Arsenic	49.0	---	2.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Cadmium	48.1	---	1.00	"	"	"	---	96	"	---	---	
Chromium	49.8	---	2.00	"	"	"	---	100	"	---	---	
Lead	47.1	---	1.00	"	"	"	---	94	"	---	---	
Silver	25.9	---	1.00	"	"	25.0	---	103	"	---	---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109199 - EPA 3051A							**Soil**					
Blank (1109199-BLK1)					Prepared: 09/13/11 10:03		Analyzed: 09/14/11 18:01					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109199-BS1)					Prepared: 09/13/11 10:03		Analyzed: 09/14/11 18:04					
EPA 6020												
Arsenic	50.4	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	49.8	---	1.00	"	"	"	---	100	"	---	---	
Chromium	50.4	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.0	---	1.00	"	"	"	---	102	"	---	---	
Silver	25.4	---	1.00	"	"	25.0	---	102	"	---	---	
Matrix Spike (1109199-MS2)					Prepared: 09/13/11 10:03		Analyzed: 09/14/11 19:29					
QC Source Sample: PNT-110906-42-A (A11I096-08)												
EPA 6020												
Arsenic	56.7	---	2.31	mg/kg dry	10	57.7	1.60	96	75-125%	---	---	
Cadmium	60.5	---	1.15	"	"	"	0.436	104	"	---	---	
Chromium	83.4	---	2.31	"	"	"	35.6	83	"	---	---	
Lead	70.0	---	1.15	"	"	"	16.4	93	"	---	---	
Silver	30.2	---	1.15	"	"	28.8	ND	105	"	---	---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109202 - EPA 3051A							**Soil**					
Blank (1109202-BLK1)					Prepared: 09/13/11 10:30		Analyzed: 09/14/11 20:28					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109202-BS1)					Prepared: 09/13/11 10:30		Analyzed: 09/14/11 20:31					
EPA 6020												
Arsenic	51.0	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Cadmium	51.7	---	1.00	"	"	"	---	103	"	---	---	
Chromium	50.8	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.7	---	1.00	"	"	"	---	103	"	---	---	
Silver	26.4	---	1.00	"	"	25.0	---	106	"	---	---	
Duplicate (1109202-DUP1)					Prepared: 09/13/11 10:30		Analyzed: 09/14/11 20:54					
QC Source Sample: PNT-110906-09-A (A11I096-23)												
EPA 6020												
Arsenic	ND	---	2.42	mg/kg dry	10	---	1.57	---	---	***	40%	
Cadmium	ND	---	1.21	"	"	---	0.485	---	---	***	40%	
Chromium	**52.4**	---	2.42	"	"	---	45.4	---	---	14	40%	
Lead	**9.28**	---	1.21	"	"	---	9.57	---	---	3	40%	
Silver	ND	---	1.21	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109202-MS1)					Prepared: 09/13/11 10:30		Analyzed: 09/14/11 20:57					
QC Source Sample: PNT-110906-09-A (A11I096-23)												
EPA 6020												
Arsenic	65.5	---	2.83	mg/kg dry	10	70.7	1.57	90	75-125%	---	---	
Cadmium	72.2	---	1.41	"	"	"	0.485	101	"	---	---	
Chromium	114	---	2.83	"	"	"	45.4	97	"	---	---	
Lead	76.7	---	1.41	"	"	"	9.57	95	"	---	---	
Silver	36.2	---	1.41	"	"	35.3	ND	102	"	---	---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109418 - EPA 3051A							**Soil**					
Blank (1109418-BLK1)					Prepared: 09/26/11 09:08		Analyzed: 09/26/11 15:29					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109418-BS1)					Prepared: 09/26/11 09:08		Analyzed: 09/26/11 15:32					
EPA 6020												
Arsenic	49.9	---	2.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Cadmium	49.5	---	1.00	"	"	"	---	99	"	---	---	
Chromium	50.5	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.5	---	1.00	"	"	"	---	103	"	---	---	
Silver	25.8	---	1.00	"	"	25.0	---	103	"	---	---	
Duplicate (1109418-DUP1)					Prepared: 09/26/11 09:08		Analyzed: 09/26/11 15:56					
QC Source Sample: PNT-110902-30-C (A11I063-06)												
EPA 6020												
Arsenic	ND	---	2.47	mg/kg dry	10	---	2.05	---	---	***	40%	
Cadmium	ND	---	1.24	"	"	---	0.714	---	---	***	40%	
Chromium	**83.1**	---	2.47	"	"	---	77.8	---	---	6	40%	
Lead	**17.7**	---	1.24	"	"	---	16.5	---	---	7	40%	
Silver	ND	---	1.24	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109418-MS1)					Prepared: 09/26/11 09:08		Analyzed: 09/26/11 15:59					
QC Source Sample: PNT-110902-30-C (A11I063-06)												
EPA 6020												
Arsenic	62.0	---	2.70	mg/kg dry	10	67.5	2.05	89	75-125%	---	---	
Cadmium	67.2	---	1.35	"	"	"	0.714	98	"	---	---	
Chromium	144	---	2.70	"	"	"	77.8	99	"	---	---	
Lead	86.9	---	1.35	"	"	"	16.5	104	"	---	---	
Silver	34.2	---	1.35	"	"	33.7	ND	101	"	---	---	
Matrix Spike (1109418-MS2)					Prepared: 09/26/11 09:08		Analyzed: 09/26/11 17:06					
QC Source Sample: PNT-110902-38-C (A11I063-31)												

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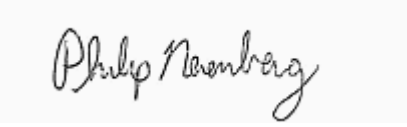

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109418 - EPA 3051A							**Soil**					
Matrix Spike (1109418-MS2)						Prepared: 09/26/11 09:08	Analyzed: 09/26/11 17:06					
QC Source Sample: PNT-110902-38-C (A11I063-31)												
EPA 6020												
Arsenic	57.8	---	2.59	mg/kg dry	10	64.9	1.36	87	75-125%	---	---	
Cadmium	64.9	---	1.30	"	"	"	1.19	98	"	---	---	
Chromium	144	---	2.59	"	"	"	74.0	107	"	---	---	
Lead	67.8	---	1.30	"	"	"	7.49	93	"	---	---	
Silver	32.6	---	1.30	"	"	32.4	ND	101	"	---	---	

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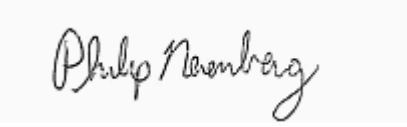

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109421 - EPA 3051A							**Soil**					
Blank (1109421-BLK1)					Prepared: 09/26/11 09:40		Analyzed: 09/27/11 12:19					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109421-BS1)					Prepared: 09/26/11 09:40		Analyzed: 09/27/11 12:22					
EPA 6020												
Arsenic	50.6	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	49.6	---	1.00	"	"	"	---	99	"	---	---	
Chromium	51.2	---	2.00	"	"	"	---	102	"	---	---	
Lead	51.1	---	1.00	"	"	"	---	102	"	---	---	
Silver	25.9	---	1.00	"	"	25.0	---	104	"	---	---	
Duplicate (1109421-DUP1)					Prepared: 09/26/11 09:40		Analyzed: 09/27/11 12:45					
QC Source Sample: PNT-110907-13-C (A11I095-03)												
EPA 6020												
Arsenic	ND	---	2.65	mg/kg dry	10	---	1.54	---	---	***	40%	
Cadmium	ND	---	1.32	"	"	---	0.666	---	---	***	40%	
Chromium	**91.4**	---	2.65	"	"	---	88.5	---	---	3	40%	
Lead	**6.44**	---	1.32	"	"	---	6.56	---	---	2	40%	
Silver	ND	---	1.32	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109421-MS1)					Prepared: 09/26/11 09:40		Analyzed: 09/27/11 12:48					
QC Source Sample: PNT-110907-13-C (A11I095-03)												
EPA 6020												
Arsenic	66.6	---	2.64	mg/kg dry	10	66.0	1.54	99	75-125%	---	---	
Cadmium	73.2	---	1.32	"	"	"	0.666	110	"	---	---	
Chromium	166	---	2.64	"	"	"	88.5	118	"	---	---	
Lead	75.9	---	1.32	"	"	"	6.56	105	"	---	---	
Silver	36.7	---	1.32	"	"	33.0	ND	111	"	---	---	
Matrix Spike (1109421-MS2)					Prepared: 09/26/11 09:40		Analyzed: 09/27/11 13:59					
QC Source Sample: PNT-110906-41-B (A11I096-15)												

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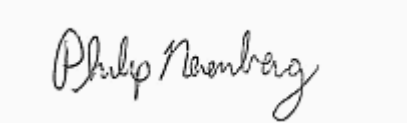

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503-718-2323 Phone
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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109421 - EPA 3051A							**Soil**					
Matrix Spike (1109421-MS2)						Prepared: 09/26/11 09:40	Analyzed: 09/27/11 13:59					
QC Source Sample: PNT-110906-41-B (A11I096-15)												
EPA 6020												
Arsenic	54.9	---	2.55	mg/kg dry	10	63.7	ND	86	75-125%	---	---	
Cadmium	63.3	---	1.27	"	"	"	0.631	98	"	---	---	
Chromium	114	---	2.55	"	"	"	52.8	96	"	---	---	
Lead	69.3	---	1.27	"	"	"	9.27	94	"	---	---	
Silver	31.9	---	1.27	"	"	31.8	ND	100	"	---	---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109432 - EPA 3051A							**Soil**					
Blank (1109432-BLK1)					Prepared: 09/26/11 13:38		Analyzed: 09/27/11 14:05					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109432-BS1)					Prepared: 09/26/11 13:38		Analyzed: 09/27/11 14:08					
EPA 6020												
Arsenic	47.4	---	2.00	mg/kg wet	10	50.0	---	95	80-120%	---	---	
Cadmium	47.1	---	1.00	"	"	"	---	94	"	---	---	
Chromium	47.1	---	2.00	"	"	"	---	94	"	---	---	
Lead	49.7	---	1.00	"	"	"	---	99	"	---	---	
Silver	24.2	---	1.00	"	"	25.0	---	97	"	---	---	
Duplicate (1109432-DUP1)					Prepared: 09/26/11 13:38		Analyzed: 09/27/11 14:52					
QC Source Sample: PNT-110906-21-B (A11I096-21)												
EPA 6020												
Arsenic	**2.86**	---	2.57	mg/kg dry	10	---	3.04	---	---	6	40%	
Cadmium	ND	---	1.29	"	"	---	0.749	---	---	***	40%	
Chromium	**65.9**	---	2.57	"	"	---	64.8	---	---	2	40%	
Lead	**9.07**	---	1.29	"	"	---	8.84	---	---	3	40%	
Silver	ND	---	1.29	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109432-MS1)					Prepared: 09/26/11 13:38		Analyzed: 09/27/11 15:04					
QC Source Sample: PNT-110906-21-B (A11I096-21)												
EPA 6020												
Arsenic	56.5	---	2.42	mg/kg dry	10	60.6	3.04	88	75-125%	---	---	
Cadmium	60.7	---	1.21	"	"	"	0.749	99	"	---	---	
Chromium	125	---	2.42	"	"	"	64.8	99	"	---	---	
Lead	66.0	---	1.21	"	"	"	8.84	94	"	---	---	
Silver	29.5	---	1.21	"	"	30.2	ND	98	"	---	---	
Matrix Spike (1109432-MS2)					Prepared: 09/26/11 13:38		Analyzed: 09/27/11 16:35					
QC Source Sample: PNT-110906-20-C (A11I096-47)												

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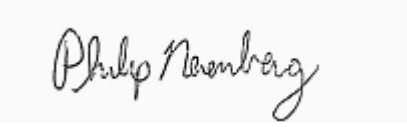

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109432 - EPA 3051A							**Soil**					
Matrix Spike (1109432-MS2)					Prepared: 09/26/11 13:38		Analyzed: 09/27/11 16:35					
QC Source Sample: PNT-110906-20-C (A11I096-47)												
EPA 6020												
Arsenic	59.4	---	2.60	mg/kg dry	10	65.0	1.60	89	75-125%	---	---	
Cadmium	64.1	---	1.30	"	"	"	0.780	97	"	---	---	
Chromium	143	---	2.60	"	"	"	72.1	110	"	---	---	
Lead	69.6	---	1.30	"	"	"	7.13	96	"	---	---	
Silver	32.1	---	1.30	"	"	32.5	ND	99	"	---	---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109507 - EPA 3051A							**Soil**					
Blank (1109507-BLK1)					Prepared: 09/29/11 11:17		Analyzed: 09/30/11 12:12					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109507-BS1)					Prepared: 09/29/11 11:17		Analyzed: 09/30/11 12:15					
EPA 6020												
Arsenic	49.8	---	2.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Chromium	49.5	---	2.00	"	"	"	---	99	"	---	---	
Lead	50.9	---	1.00	"	"	"	---	102	"	---	---	
Duplicate (1109507-DUP1)					Prepared: 09/29/11 11:17		Analyzed: 09/30/11 12:38					
QC Source Sample: PNT-110901-11-C (A11I031-13)												
EPA 6020												
Arsenic	ND	---	2.55	mg/kg dry	10	---	1.07	---	---	***	40%	
Chromium	**55.7**	---	2.55	"	"	---	56.7	---	---	2	40%	
Lead	**8.52**	---	1.28	"	"	---	8.55	---	---	0.3	40%	
Matrix Spike (1109507-MS1)					Prepared: 09/29/11 11:17		Analyzed: 09/30/11 12:41					
QC Source Sample: PNT-110901-11-C (A11I031-13)												
EPA 6020												
Arsenic	64.0	---	2.79	mg/kg dry	10	69.8	1.07	90	75-125%	---	---	
Chromium	123	---	2.79	"	"	"	56.7	94	"	---	---	
Lead	75.1	---	1.39	"	"	"	8.55	95	"	---	---	
Matrix Spike (1109507-MS2)					Prepared: 09/29/11 11:17		Analyzed: 09/30/11 13:49					
QC Source Sample: PNT-110901-04-AD (A11I031-39)												
EPA 6020												
Arsenic	64.7	---	2.30	mg/kg dry	10	57.5	8.72	97	75-125%	---	---	
Chromium	100	---	2.30	"	"	"	44.2	98	"	---	---	
Lead	1180	---	1.15	"	"	"	1240	-105	"	---	---	Q-03
Post Spike (1109507-PS1)					Prepared: 09/30/11 14:32		Analyzed: 09/30/11 14:42					
QC Source Sample: PNT-110901-04-AD (A11I031-39)												
EPA 6020												

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109507 - EPA 3051A							**Soil**					
Post Spike (1109507-PS1)					Prepared: 09/30/11 14:32		Analyzed: 09/30/11 14:42					
QC Source Sample: PNT-110901-04-AD (A11I031-39)												
Lead	1690	---		ug/L	10	500	1110	116	80-120%		---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109529 - EPA 3051A							**Soil**					
Blank (1109529-BLK1)					Prepared: 09/29/11 15:58		Analyzed: 09/30/11 14:04					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109529-BS1)					Prepared: 09/29/11 15:58		Analyzed: 09/30/11 14:07					
EPA 6020												
Arsenic	49.0	---	2.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Chromium	49.6	---	2.00	"	"	"	---	99	"	---	---	
Lead	50.1	---	1.00	"	"	"	---	100	"	---	---	
Duplicate (1109529-DUP1)					Prepared: 09/29/11 15:58		Analyzed: 09/30/11 14:21					
QC Source Sample: PNT-110901-05-C (A11I031-44)												
EPA 6020												
Arsenic	**5.12**	---	2.68	mg/kg dry	10	---	2.85	---	---	57	40%	Q-05
Chromium	**59.7**	---	2.68	"	"	---	52.5	---	---	13	40%	
Lead	**165**	---	1.34	"	"	---	192	---	---	15	40%	
Matrix Spike (1109529-MS1)					Prepared: 09/29/11 15:58		Analyzed: 09/30/11 14:26					
QC Source Sample: PNT-110901-05-C (A11I031-44)												
EPA 6020												
Arsenic	63.9	---	2.70	mg/kg dry	10	67.4	2.85	91	75-125%	---	---	
Chromium	125	---	2.70	"	"	"	52.5	107	"	---	---	
Lead	271	---	1.35	"	"	"	192	117	"	---	---	

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109546 - EPA 3051A							**Soil**					
Blank (1109546-BLK1)					Prepared: 09/30/11 10:24		Analyzed: 09/30/11 16:43					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109546-BS1)					Prepared: 09/30/11 10:24		Analyzed: 09/30/11 16:46					
EPA 6020												
Arsenic	51.0	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Chromium	51.9	---	2.00	"	"	"	---	104	"	---	---	
Lead	53.4	---	1.00	"	"	"	---	107	"	---	---	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110102 - EPA 3051A							**Soil**					
Blank (1110102-BLK1)					Prepared: 10/06/11 12:50		Analyzed: 10/07/11 10:35					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110102-BS1)					Prepared: 10/06/11 12:50		Analyzed: 10/07/11 10:09					
EPA 6020												
Arsenic	48.7	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Chromium	49.0	---	2.00	"	"	"	---	98	"	---	---	
Lead	50.4	---	1.00	"	"	"	---	101	"	---	---	
Matrix Spike (1110102-MS2)					Prepared: 10/06/11 12:50		Analyzed: 10/07/11 11:31					
QC Source Sample: PNT-110930-57-AD (A11J011-11)												
EPA 6020												
Arsenic	51.1	---	2.17	mg/kg dry	10	54.3	2.35	90	75-125%	---	---	
Chromium	98.8	---	2.17	"	"	"	40.6	107	"	---	---	
Lead	65.0	---	1.09	"	"	"	10.4	101	"	---	---	

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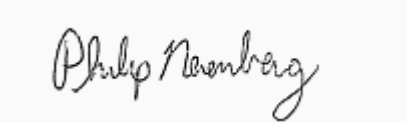

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110113 - EPA 3051A							**Soil**					
Blank (1110113-BLK1)					Prepared: 10/07/11 08:09		Analyzed: 10/07/11 11:53					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110113-BS1)					Prepared: 10/07/11 08:09		Analyzed: 10/07/11 11:56					
EPA 6020												
Arsenic	49.3	---	2.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Chromium	49.0	---	2.00	"	"	"	---	98	"	---	---	
Lead	51.4	---	1.00	"	"	"	---	103	"	---	---	
Duplicate (1110113-DUP1)					Prepared: 10/07/11 08:09		Analyzed: 10/07/11 12:11					
QC Source Sample: PNT-111003-35-D (A11J032-07)												
EPA 6020												
Arsenic	ND	---	2.33	mg/kg dry	10	---	1.45	---	---	***	40%	
Chromium	**46.0**	---	2.33	"	"	---	52.9	---	---	14	40%	
Lead	**4.96**	---	1.17	"	"	---	5.35	---	---	8	40%	
Matrix Spike (1110113-MS1)					Prepared: 10/07/11 08:09		Analyzed: 10/07/11 12:14					
QC Source Sample: PNT-111003-35-D (A11J032-07)												
EPA 6020												
Arsenic	58.6	---	2.53	mg/kg dry	10	63.4	1.45	90	75-125%	---	---	
Chromium	108	---	2.53	"	"	"	52.9	87	"	---	---	
Lead	68.8	---	1.27	"	"	"	5.35	100	"	---	---	

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12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110136 - EPA 3051A							**Soil**					
Blank (1110136-BLK1)					Prepared: 10/07/11 14:07		Analyzed: 10/11/11 14:33					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	4.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110136-BS1)					Prepared: 10/07/11 14:07		Analyzed: 10/11/11 14:36					
EPA 6020												
Arsenic	51.1	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Chromium	49.1	---	4.00	"	"	"	---	98	"	---	---	
Lead	52.6	---	1.00	"	"	"	---	105	"	---	---	
Duplicate (1110136-DUP1)					Prepared: 10/07/11 14:07		Analyzed: 10/11/11 14:51					
QC Source Sample: PNT-111003-49-A (A11J032-20)												
EPA 6020												
Arsenic	ND	---	2.46	mg/kg dry	10	---	0.845	---	---	***	40%	
Chromium	**55.5**	---	4.92	"	"	---	53.1	---	---	4	40%	
Lead	**7.67**	---	1.23	"	"	---	7.55	---	---	2	40%	
Matrix Spike (1110136-MS1)					Prepared: 10/07/11 14:07		Analyzed: 10/11/11 14:54					
QC Source Sample: PNT-111003-49-A (A11J032-20)												
EPA 6020												
Arsenic	65.9	---	2.75	mg/kg dry	10	68.7	0.845	95	75-125%	---	---	
Chromium	129	---	5.49	"	"	"	53.1	110	"	---	---	
Lead	73.6	---	1.37	"	"	"	7.55	96	"	---	---	
Matrix Spike (1110136-MS2)					Prepared: 10/07/11 14:07		Analyzed: 10/12/11 17:24					
QC Source Sample: PNT-111004-08-E (A11J052-21)												
EPA 6020												
Arsenic	66.8	---	2.80	mg/kg dry	10	70.0	0.815	94	75-125%	---	---	
Chromium	146	---	2.80	"	"	"	65.7	115	"	---	---	
Lead	74.0	---	1.40	"	"	"	9.83	92	"	---	---	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110213 - EPA 3051A							**Soil**					
Blank (1110213-BLK1)					Prepared: 10/12/11 08:13		Analyzed: 10/14/11 14:22					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110213-BS1)					Prepared: 10/12/11 08:13		Analyzed: 10/14/11 14:25					
EPA 6020												
Arsenic	50.9	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Chromium	49.7	---	2.00	"	"	"	---	99	"	---	---	
Lead	52.5	---	1.00	"	"	"	---	105	"	---	---	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110232 - EPA 3051A							**Soil**					
Blank (1110232-BLK1)					Prepared: 10/12/11 12:01		Analyzed: 10/14/11 16:26					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110232-BS1)					Prepared: 10/12/11 12:01		Analyzed: 10/14/11 16:29					
EPA 6020												
Arsenic	51.2	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Chromium	51.0	---	2.00	"	"	"	---	102	"	---	---	
Lead	52.2	---	1.00	"	"	"	---	104	"	---	---	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109065 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109065-DUP4)					Prepared: 09/06/11 09:59		Analyzed: 09/07/11 10:25					
QC Source Sample: PNT-110901-03-A (A11I031-32)												
Apex SOP												
% Solids	**85.4**	---	1.00	% by Weight	1	---	85.0	---	---	0.5	20%	
Duplicate (1109065-DUP5)					Prepared: 09/06/11 09:59		Analyzed: 09/07/11 10:25					
QC Source Sample: PNT-110901-05-A (A11I031-42)												
Apex SOP												
% Solids	**85.0**	---	1.00	% by Weight	1	---	85.9	---	---	1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109092 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109092-DUP8)					Prepared: 09/07/11 16:49		Analyzed: 09/08/11 09:56					
QC Source Sample: PNT-110902-30-A (A11I063-04)												
Apex SOP												
% Solids	**85.2**	---	1.00	% by Weight	1	---	84.1	---	---	1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109113 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109113-DUP5)					Prepared: 09/08/11 14:53		Analyzed: 09/09/11 11:12					
QC Source Sample: PNT-110907-24-A (A11I095-04)												
Apex SOP												
% Solids	**80.1**	---	1.00	% by Weight	1	---	78.6	---	---	2	20%	
Duplicate (1109113-DUP7)					Prepared: 09/08/11 14:53		Analyzed: 09/09/11 11:12					
QC Source Sample: PNT-110906-10-A (A11I096-29)												
Apex SOP												
% Solids	**77.1**	---	1.00	% by Weight	1	---	75.7	---	---	2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109426 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109426-DUP4)					Prepared: 09/26/11 10:27		Analyzed: 09/27/11 10:25					

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109426 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109426-DUP4)					Prepared: 09/26/11 10:27		Analyzed: 09/27/11 10:25					
QC Source Sample: PNT-110902-30-C (A11I063-06)												
Apex SOP												
% Solids	**76.3**	---	1.00	% by Weight	1	---	76.9	---	---	0.8	20%	
Duplicate (1109426-DUP5)					Prepared: 09/26/11 10:27		Analyzed: 09/27/11 10:25					
QC Source Sample: PNT-110902-38-B (A11I063-30)												
Apex SOP												
% Solids	**79.2**	---	1.00	% by Weight	1	---	78.7	---	---	0.6	20%	
Duplicate (1109426-DUP6)					Prepared: 09/26/11 10:27		Analyzed: 09/27/11 10:25					
QC Source Sample: PNT-110907-13-C (A11I095-03)												
Apex SOP												
% Solids	**76.8**	---	1.00	% by Weight	1	---	77.0	---	---	0.3	20%	
Duplicate (1109426-DUP7)					Prepared: 09/26/11 10:27		Analyzed: 09/27/11 10:25					
QC Source Sample: PNT-110906-10-B (A11I096-30)												
Apex SOP												
% Solids	**75.1**	---	1.00	% by Weight	1	---	74.6	---	---	0.7	20%	
Duplicate (1109426-DUP8)					Prepared: 09/26/11 10:27		Analyzed: 09/27/11 10:25					
QC Source Sample: PNT-110906-20-B (A11I096-46)												
Apex SOP												
% Solids	**80.3**	---	1.00	% by Weight	1	---	80.4	---	---	0.1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109508 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109508-DUP2)					Prepared: 09/29/11 12:50		Analyzed: 09/30/11 11:46					
QC Source Sample: PNT-110906-08-B (A11I096-37)												
Apex SOP												
% Solids	**78.6**	---	1.00	% by Weight	1	---	78.0	---	---	0.8	20%	
Duplicate (1109508-DUP3)					Prepared: 09/29/11 12:50		Analyzed: 09/30/11 11:46					
QC Source Sample: PNT-110901-15-B (A11I031-05)												

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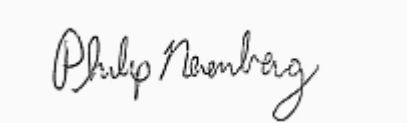

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109508 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109508-DUP3)					Prepared: 09/29/11 12:50		Analyzed: 09/30/11 11:46					
QC Source Sample: PNT-110901-15-B (A11I031-05)												
Apex SOP												
% Solids	**82.4**	---	1.00	% by Weight	1	---	81.7	---	---	0.9	20%	
Duplicate (1109508-DUP4)					Prepared: 09/29/11 12:50		Analyzed: 09/30/11 11:46					
QC Source Sample: PNT-110901-27-B (A11I031-27)												
Apex SOP												
% Solids	**75.1**	---	1.00	% by Weight	1	---	75.6	---	---	0.7	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109550 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109550-DUP1)					Prepared: 09/30/11 11:56		Analyzed: 10/03/11 11:32					
QC Source Sample: PNT-110902-06-C (A11I063-09)												
Apex SOP												
% Solids	**73.6**	---	1.00	% by Weight	1	---	73.2	---	---	0.5	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1110044 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1110044-DUP2)					Prepared: 10/04/11 10:38		Analyzed: 10/05/11 10:02					
QC Source Sample: PNT-110930-12-E (A11J011-02)												
Apex SOP												
% Solids	**83.0**	---	1.00	% by Weight	1	---	82.0	---	---	1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1110069 - Total Solids (Dry Weight) **Soil**

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1110096 - Total Solids (Dry Weight) **Soil**

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110200 - Total Solids (Dry Weight)							**Soil**					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1110225 - Total Solids (Dry Weight)							**Soil**					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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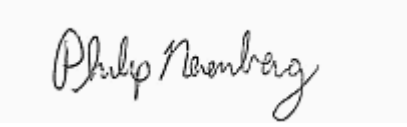

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1109111							
A11I031-01	Soil	EPA 6020	09/01/11 08:38	09/08/11 09:47	0.498g/50mL	0.5g/50mL	1.00
A11I031-04	Soil	EPA 6020	09/01/11 09:32	09/08/11 09:47	0.472g/50mL	0.5g/50mL	1.06
A11I031-07	Soil	EPA 6020	09/01/11 10:21	09/08/11 09:47	0.504g/50mL	0.5g/50mL	0.99
A11I031-10	Soil	EPA 6020	09/01/11 11:24	09/08/11 09:47	0.493g/50mL	0.5g/50mL	1.01
A11I031-11	Soil	EPA 6020	09/01/11 11:24	09/08/11 09:47	0.48g/50mL	0.5g/50mL	1.04
A11I031-14	Soil	EPA 6020	09/01/11 14:00	09/08/11 09:47	0.49g/50mL	0.5g/50mL	1.02
A11I031-17	Soil	EPA 6020	09/01/11 14:36	09/08/11 09:47	0.527g/50mL	0.5g/50mL	0.95
Batch: 1109132							
A11I031-20	Soil	EPA 6020	09/01/11 15:29	09/08/11 17:28	0.507g/50mL	0.5g/50mL	0.99
A11I031-23	Soil	EPA 6020	09/01/11 08:47	09/08/11 17:28	0.494g/50mL	0.5g/50mL	1.01
A11I031-26	Soil	EPA 6020	09/01/11 09:18	09/08/11 17:28	0.462g/50mL	0.5g/50mL	1.08
A11I031-29	Soil	EPA 6020	09/01/11 10:14	09/08/11 17:28	0.51g/50mL	0.5g/50mL	0.98
A11I031-32	Soil	EPA 6020	09/01/11 11:23	09/08/11 17:28	0.51g/50mL	0.5g/50mL	0.98
A11I031-35	Soil	EPA 6020	09/01/11 14:07	09/08/11 17:28	0.483g/50mL	0.5g/50mL	1.04
A11I031-38	Soil	EPA 6020	09/01/11 15:00	09/08/11 17:28	0.505g/50mL	0.5g/50mL	0.99
A11I031-42	Soil	EPA 6020	09/01/11 15:45	09/08/11 17:28	0.506g/50mL	0.5g/50mL	0.99
Batch: 1109164							
A11I063-01	Soil	EPA 6020	09/02/11 09:18	09/12/11 08:46	0.538g/50mL	0.5g/50mL	0.93
A11I063-04	Soil	EPA 6020	09/02/11 10:05	09/12/11 08:46	0.424g/50mL	0.5g/50mL	1.18
A11I063-07	Soil	EPA 6020	09/02/11 10:47	09/12/11 08:46	0.512g/50mL	0.5g/50mL	0.98
A11I063-10	Soil	EPA 6020	09/02/11 13:16	09/12/11 08:46	0.435g/50mL	0.5g/50mL	1.15
A11I063-13	Soil	EPA 6020	09/02/11 13:45	09/12/11 08:46	0.526g/50mL	0.5g/50mL	0.95
A11I063-16	Soil	EPA 6020	09/02/11 09:22	09/12/11 08:46	0.452g/50mL	0.5g/50mL	1.11
A11I063-19	Soil	EPA 6020	09/02/11 10:00	09/12/11 08:46	0.464g/50mL	0.5g/50mL	1.08
Batch: 1109184							
A11I063-23	Soil	EPA 6020	09/02/11 11:00	09/12/11 14:18	0.498g/50mL	0.5g/50mL	1.00
A11I063-26	Soil	EPA 6020	09/02/11 13:10	09/12/11 14:18	0.49g/50mL	0.5g/50mL	1.02
A11I063-29	Soil	EPA 6020	09/02/11 13:57	09/12/11 14:18	0.499g/50mL	0.5g/50mL	1.00
Batch: 1109199							
A11I095-01	Soil	EPA 6020	09/07/11 09:21	09/13/11 10:03	0.509g/50mL	0.5g/50mL	0.98
A11I095-04	Soil	EPA 6020	09/07/11 09:58	09/13/11 10:03	0.489g/50mL	0.5g/50mL	1.02
A11I095-07	Soil	EPA 6020	09/07/11 10:48	09/13/11 10:03	0.521g/50mL	0.5g/50mL	0.96
A11I095-08	Soil	EPA 6020	09/07/11 10:48	09/13/11 10:03	0.501g/50mL	0.5g/50mL	1.00

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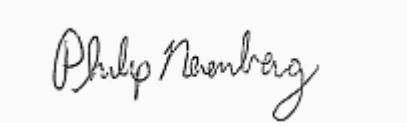

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I095-09	Soil	EPA 6020	09/07/11 11:02	09/13/11 10:03	0.515g/50mL	0.5g/50mL	0.97
A11I095-10	Soil	EPA 6020	09/07/11 11:22	09/13/11 10:03	0.488g/50mL	0.5g/50mL	1.02
A11I095-11	Soil	EPA 6020	09/07/11 09:29	09/13/11 10:03	0.495g/50mL	0.5g/50mL	1.01
A11I095-14	Soil	EPA 6020	09/07/11 10:11	09/13/11 10:03	0.486g/50mL	0.5g/50mL	1.03
A11I095-17	Soil	EPA 6020	09/07/11 10:55	09/13/11 10:03	0.484g/50mL	0.5g/50mL	1.03
A11I095-21	Soil	EPA 6020	09/07/11 11:33	09/13/11 10:03	0.51g/50mL	0.5g/50mL	0.98
A11I096-01	Soil	EPA 6020	09/06/11 09:25	09/13/11 10:03	0.496g/50mL	0.5g/50mL	1.01
A11I096-04	Soil	EPA 6020	09/06/11 10:08	09/13/11 10:03	0.512g/50mL	0.5g/50mL	0.98
A11I096-08	Soil	EPA 6020	09/06/11 10:59	09/13/11 10:03	0.494g/50mL	0.5g/50mL	1.01
A11I096-11	Soil	EPA 6020	09/06/11 13:35	09/13/11 10:03	0.506g/50mL	0.5g/50mL	0.99
Batch: 1109202							
A11I096-14	Soil	EPA 6020	09/06/11 14:11	09/13/11 10:30	0.474g/50mL	0.5g/50mL	1.05
A11I096-17	Soil	EPA 6020	09/06/11 14:46	09/13/11 10:30	0.439g/50mL	0.5g/50mL	1.14
A11I096-20	Soil	EPA 6020	09/06/11 15:32	09/13/11 10:30	0.482g/50mL	0.5g/50mL	1.04
A11I096-23	Soil	EPA 6020	09/06/11 09:25	09/13/11 10:30	0.447g/50mL	0.5g/50mL	1.12
A11I096-26	Soil	EPA 6020	09/06/11 10:06	09/13/11 10:30	0.561g/50mL	0.5g/50mL	0.89
A11I096-29	Soil	EPA 6020	09/06/11 10:46	09/13/11 10:30	0.445g/50mL	0.5g/50mL	1.12
A11I096-32	Soil	EPA 6020	09/06/11 11:37	09/13/11 10:30	0.476g/50mL	0.5g/50mL	1.05
A11I096-35	Soil	EPA 6020	09/06/11 13:38	09/13/11 10:30	0.484g/50mL	0.5g/50mL	1.03
A11I096-39	Soil	EPA 6020	09/06/11 14:12	09/13/11 10:30	0.507g/50mL	0.5g/50mL	0.99
A11I096-42	Soil	EPA 6020	09/06/11 14:48	09/13/11 10:30	0.542g/50mL	0.5g/50mL	0.92
A11I096-45	Soil	EPA 6020	09/06/11 15:36	09/13/11 10:30	0.476g/50mL	0.5g/50mL	1.05
Batch: 1109418							
A11I063-02	Soil	EPA 6020	09/02/11 09:30	09/26/11 09:08	0.516g/50mL	0.5g/50mL	0.97
A11I063-03	Soil	EPA 6020	09/02/11 09:38	09/26/11 09:08	0.512g/50mL	0.5g/50mL	0.98
A11I063-05	Soil	EPA 6020	09/02/11 10:15	09/26/11 09:08	0.506g/50mL	0.5g/50mL	0.99
A11I063-06	Soil	EPA 6020	09/02/11 10:23	09/26/11 09:08	0.501g/50mL	0.5g/50mL	1.00
A11I063-08	Soil	EPA 6020	09/02/11 10:54	09/26/11 09:08	0.49g/50mL	0.5g/50mL	1.02
A11I063-11	Soil	EPA 6020	09/02/11 13:20	09/26/11 09:08	0.51g/50mL	0.5g/50mL	0.98
A11I063-12	Soil	EPA 6020	09/02/11 13:25	09/26/11 09:08	0.523g/50mL	0.5g/50mL	0.96
A11I063-14	Soil	EPA 6020	09/02/11 13:53	09/26/11 09:08	0.525g/50mL	0.5g/50mL	0.95
A11I063-15	Soil	EPA 6020	09/02/11 14:00	09/26/11 09:08	0.505g/50mL	0.5g/50mL	0.99
A11I063-17	Soil	EPA 6020	09/02/11 09:30	09/26/11 09:08	0.495g/50mL	0.5g/50mL	1.01
A11I063-18	Soil	EPA 6020	09/02/11 09:40	09/26/11 09:08	0.479g/50mL	0.5g/50mL	1.04

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I063-20	Soil	EPA 6020	09/02/11 10:15	09/26/11 09:08	0.485g/50mL	0.5g/50mL	1.03
A11I063-21	Soil	EPA 6020	09/02/11 10:15	09/26/11 09:08	0.459g/50mL	0.5g/50mL	1.09
A11I063-22	Soil	EPA 6020	09/02/11 10:37	09/26/11 09:08	0.479g/50mL	0.5g/50mL	1.04
A11I063-24	Soil	EPA 6020	09/02/11 11:07	09/26/11 09:08	0.501g/50mL	0.5g/50mL	1.00
A11I063-25	Soil	EPA 6020	09/02/11 11:15	09/26/11 09:08	0.477g/50mL	0.5g/50mL	1.05
A11I063-27	Soil	EPA 6020	09/02/11 13:23	09/26/11 09:08	0.513g/50mL	0.5g/50mL	0.98
A11I063-28	Soil	EPA 6020	09/02/11 13:35	09/26/11 09:08	0.528g/50mL	0.5g/50mL	0.95
A11I063-30	Soil	EPA 6020	09/02/11 14:05	09/26/11 09:08	0.483g/50mL	0.5g/50mL	1.04
A11I063-31	Soil	EPA 6020	09/02/11 14:14	09/26/11 09:08	0.51g/50mL	0.5g/50mL	0.98
Batch: 1109421							
A11I031-02	Soil	EPA 6020	09/01/11 08:50	09/26/11 09:40	0.489g/50mL	0.5g/50mL	1.02
A11I031-03	Soil	EPA 6020	09/01/11 09:02	09/26/11 09:40	0.489g/50mL	0.5g/50mL	1.02
A11I095-02	Soil	EPA 6020	09/07/11 09:26	09/26/11 09:40	0.486g/50mL	0.5g/50mL	1.03
A11I095-03	Soil	EPA 6020	09/07/11 09:33	09/26/11 09:40	0.497g/50mL	0.5g/50mL	1.01
A11I095-05	Soil	EPA 6020	09/07/11 10:17	09/26/11 09:40	0.462g/50mL	0.5g/50mL	1.08
A11I095-06	Soil	EPA 6020	09/07/11 10:27	09/26/11 09:40	0.496g/50mL	0.5g/50mL	1.01
A11I095-15	Soil	EPA 6020	09/07/11 10:20	09/26/11 09:40	0.497g/50mL	0.5g/50mL	1.01
A11I095-16	Soil	EPA 6020	09/07/11 10:23	09/26/11 09:40	0.494g/50mL	0.5g/50mL	1.01
A11I095-18	Soil	EPA 6020	09/07/11 10:55	09/26/11 09:40	0.459g/50mL	0.5g/50mL	1.09
A11I095-19	Soil	EPA 6020	09/07/11 11:14	09/26/11 09:40	0.47g/50mL	0.5g/50mL	1.06
A11I095-20	Soil	EPA 6020	09/07/11 11:18	09/26/11 09:40	0.464g/50mL	0.5g/50mL	1.08
A11I096-02	Soil	EPA 6020	09/06/11 09:33	09/26/11 09:40	0.475g/50mL	0.5g/50mL	1.05
A11I096-03	Soil	EPA 6020	09/06/11 09:41	09/26/11 09:40	0.454g/50mL	0.5g/50mL	1.10
A11I096-05	Soil	EPA 6020	09/06/11 10:08	09/26/11 09:40	0.455g/50mL	0.5g/50mL	1.10
A11I096-06	Soil	EPA 6020	09/06/11 10:22	09/26/11 09:40	0.463g/50mL	0.5g/50mL	1.08
A11I096-07	Soil	EPA 6020	09/06/11 10:27	09/26/11 09:40	0.515g/50mL	0.5g/50mL	0.97
A11I096-12	Soil	EPA 6020	09/06/11 13:43	09/26/11 09:40	0.489g/50mL	0.5g/50mL	1.02
A11I096-13	Soil	EPA 6020	09/06/11 13:50	09/26/11 09:40	0.499g/50mL	0.5g/50mL	1.00
A11I096-15	Soil	EPA 6020	09/06/11 14:17	09/26/11 09:40	0.523g/50mL	0.5g/50mL	0.96
Batch: 1109432							
A11I096-16	Soil	EPA 6020	09/06/11 14:26	09/26/11 13:38	0.514g/50mL	0.5g/50mL	0.97
A11I096-18	Soil	EPA 6020	09/06/11 14:54	09/26/11 13:38	0.463g/50mL	0.5g/50mL	1.08
A11I096-19	Soil	EPA 6020	09/06/11 15:08	09/26/11 13:38	0.494g/50mL	0.5g/50mL	1.01
A11I096-21	Soil	EPA 6020	09/06/11 15:43	09/26/11 13:38	0.529g/50mL	0.5g/50mL	0.95

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I096-22	Soil	EPA 6020	09/06/11 16:00	09/26/11 13:38	0.493g/50mL	0.5g/50mL	1.01
A11I096-24	Soil	EPA 6020	09/06/11 09:34	09/26/11 13:38	0.514g/50mL	0.5g/50mL	0.97
A11I096-25	Soil	EPA 6020	09/06/11 09:47	09/26/11 13:38	0.508g/50mL	0.5g/50mL	0.98
A11I096-27	Soil	EPA 6020	09/06/11 10:16	09/26/11 13:38	0.505g/50mL	0.5g/50mL	0.99
A11I096-28	Soil	EPA 6020	09/06/11 10:23	09/26/11 13:38	0.5g/50mL	0.5g/50mL	1.00
A11I096-30	Soil	EPA 6020	09/06/11 10:56	09/26/11 13:38	0.514g/50mL	0.5g/50mL	0.97
A11I096-31	Soil	EPA 6020	09/06/11 11:02	09/26/11 13:38	0.46g/50mL	0.5g/50mL	1.09
A11I096-33	Soil	EPA 6020	09/06/11 11:46	09/26/11 13:38	0.497g/50mL	0.5g/50mL	1.01
A11I096-34	Soil	EPA 6020	09/06/11 11:53	09/26/11 13:38	0.483g/50mL	0.5g/50mL	1.04
A11I096-40	Soil	EPA 6020	09/06/11 14:20	09/26/11 13:38	0.456g/50mL	0.5g/50mL	1.10
A11I096-41	Soil	EPA 6020	09/06/11 14:25	09/26/11 13:38	0.488g/50mL	0.5g/50mL	1.02
A11I096-43	Soil	EPA 6020	09/06/11 14:56	09/26/11 13:38	0.476g/50mL	0.5g/50mL	1.05
A11I096-44	Soil	EPA 6020	09/06/11 15:05	09/26/11 13:38	0.495g/50mL	0.5g/50mL	1.01
A11I096-46	Soil	EPA 6020	09/06/11 15:44	09/26/11 13:38	0.466g/50mL	0.5g/50mL	1.07
A11I096-47	Soil	EPA 6020	09/06/11 15:51	09/26/11 13:38	0.505g/50mL	0.5g/50mL	0.99
Batch: 1109507							
A11I031-05	Soil	EPA 6020	09/01/11 09:41	09/29/11 11:17	0.475g/50mL	0.5g/50mL	1.05
A11I031-06	Soil	EPA 6020	09/01/11 09:55	09/29/11 11:17	0.46g/50mL	0.5g/50mL	1.09
A11I031-12	Soil	EPA 6020	09/01/11 11:41	09/29/11 11:17	0.483g/50mL	0.5g/50mL	1.04
A11I031-13	Soil	EPA 6020	09/01/11 11:55	09/29/11 11:17	0.499g/50mL	0.5g/50mL	1.00
A11I031-18	Soil	EPA 6020	09/01/11 14:46	09/29/11 11:17	0.485g/50mL	0.5g/50mL	1.03
A11I031-19	Soil	EPA 6020	09/01/11 15:05	09/29/11 11:17	0.493g/50mL	0.5g/50mL	1.01
A11I031-21	Soil	EPA 6020	09/01/11 15:41	09/29/11 11:17	0.483g/50mL	0.5g/50mL	1.04
A11I031-22	Soil	EPA 6020	09/01/11 15:55	09/29/11 11:17	0.464g/50mL	0.5g/50mL	1.08
A11I031-24	Soil	EPA 6020	09/01/11 08:51	09/29/11 11:17	0.479g/50mL	0.5g/50mL	1.04
A11I031-25	Soil	EPA 6020	09/01/11 08:56	09/29/11 11:17	0.476g/50mL	0.5g/50mL	1.05
A11I031-27	Soil	EPA 6020	09/01/11 09:37	09/29/11 11:17	0.465g/50mL	0.5g/50mL	1.08
A11I031-28	Soil	EPA 6020	09/01/11 09:47	09/29/11 11:17	0.49g/50mL	0.5g/50mL	1.02
A11I031-30	Soil	EPA 6020	09/01/11 10:22	09/29/11 11:17	0.477g/50mL	0.5g/50mL	1.05
A11I031-31	Soil	EPA 6020	09/01/11 10:38	09/29/11 11:17	0.472g/50mL	0.5g/50mL	1.06
A11I031-33	Soil	EPA 6020	09/01/11 11:23	09/29/11 11:17	0.503g/50mL	0.5g/50mL	0.99
A11I031-34	Soil	EPA 6020	09/01/11 11:41	09/29/11 11:17	0.525g/50mL	0.5g/50mL	0.95
A11I031-36	Soil	EPA 6020	09/01/11 14:22	09/29/11 11:17	0.481g/50mL	0.5g/50mL	1.04
A11I031-37	Soil	EPA 6020	09/01/11 14:32	09/29/11 11:17	0.482g/50mL	0.5g/50mL	1.04

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I031-39	Soil	EPA 6020	09/01/11 15:00	09/29/11 11:17	0.498g/50mL	0.5g/50mL	1.00
Batch: 1109529							
A11I031-40	Soil	EPA 6020	09/01/11 15:10	09/29/11 15:58	0.477g/50mL	0.5g/50mL	1.05
A11I031-41	Soil	EPA 6020	09/01/11 15:26	09/29/11 15:58	0.478g/50mL	0.5g/50mL	1.05
A11I031-43	Soil	EPA 6020	09/01/11 16:01	09/29/11 15:58	0.489g/50mL	0.5g/50mL	1.02
A11I031-44	Soil	EPA 6020	09/01/11 16:06	09/29/11 15:58	0.48g/50mL	0.5g/50mL	1.04
A11I096-36	Soil	EPA 6020	09/06/11 13:38	09/29/11 15:58	0.517g/50mL	0.5g/50mL	0.97
A11I096-37	Soil	EPA 6020	09/06/11 13:50	09/29/11 15:58	0.488g/50mL	0.5g/50mL	1.02
A11I096-38	Soil	EPA 6020	09/06/11 13:57	09/29/11 15:58	0.504g/50mL	0.5g/50mL	0.99
Batch: 1109546							
A11I063-09	Soil	EPA 6020	09/02/11 11:02	09/30/11 10:24	0.468g/50mL	0.5g/50mL	1.07
Batch: 1110102							
A11J011-01	Soil	EPA 6020	09/30/11 13:22	10/06/11 12:50	0.498g/50mL	0.5g/50mL	1.00
A11J011-02	Soil	EPA 6020	09/30/11 13:15	10/06/11 12:50	0.529g/50mL	0.5g/50mL	0.95
A11J011-04	Soil	EPA 6020	09/30/11 13:43	10/06/11 12:50	0.489g/50mL	0.5g/50mL	1.02
A11J011-05	Soil	EPA 6020	09/30/11 13:35	10/06/11 12:50	0.47g/50mL	0.5g/50mL	1.06
A11J011-07	Soil	EPA 6020	09/30/11 14:11	10/06/11 12:50	0.469g/50mL	0.5g/50mL	1.07
A11J011-10	Soil	EPA 6020	09/30/11 14:57	10/06/11 12:50	0.48g/50mL	0.5g/50mL	1.04
A11J011-11	Soil	EPA 6020	09/30/11 14:57	10/06/11 12:50	0.505g/50mL	0.5g/50mL	0.99
Batch: 1110113							
A11J032-01	Soil	EPA 6020	10/03/11 09:15	10/07/11 08:09	0.495g/50mL	0.5g/50mL	1.01
A11J032-04	Soil	EPA 6020	10/03/11 09:42	10/07/11 08:09	0.462g/50mL	0.5g/50mL	1.08
A11J032-07	Soil	EPA 6020	10/03/11 10:22	10/07/11 08:09	0.506g/50mL	0.5g/50mL	0.99
A11J032-08	Soil	EPA 6020	10/03/11 10:19	10/07/11 08:09	0.504g/50mL	0.5g/50mL	0.99
A11J032-10	Soil	EPA 6020	10/03/11 10:50	10/07/11 08:09	0.498g/50mL	0.5g/50mL	1.00
A11J032-11	Soil	EPA 6020	10/03/11 10:45	10/07/11 08:09	0.505g/50mL	0.5g/50mL	0.99
A11J032-13	Soil	EPA 6020	10/03/11 11:13	10/07/11 08:09	0.472g/50mL	0.5g/50mL	1.06
A11J032-16	Soil	EPA 6020	10/03/11 13:02	10/07/11 08:09	0.489g/50mL	0.5g/50mL	1.02
A11J032-17	Soil	EPA 6020	10/03/11 13:02	10/07/11 08:09	0.49g/50mL	0.5g/50mL	1.02
Batch: 1110136							
A11J032-20	Soil	EPA 6020	10/03/11 13:26	10/07/11 14:07	0.472g/50mL	0.5g/50mL	1.06
A11J032-23	Soil	EPA 6020	10/03/11 13:48	10/07/11 14:07	0.473g/50mL	0.5g/50mL	1.06
A11J032-26	Soil	EPA 6020	10/03/11 14:03	10/07/11 14:07	0.487g/50mL	0.5g/50mL	1.03
A11J032-29	Soil	EPA 6020	10/03/11 14:31	10/07/11 14:07	0.489g/50mL	0.5g/50mL	1.02

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Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11J052-01	Soil	EPA 6020	10/04/11 09:09	10/07/11 14:07	0.478g/50mL	0.5g/50mL	1.05
A11J052-02	Soil	EPA 6020	10/04/11 09:06	10/07/11 14:07	0.46g/50mL	0.5g/50mL	1.09
A11J052-05	Soil	EPA 6020	10/04/11 09:30	10/07/11 14:07	0.504g/50mL	0.5g/50mL	0.99
A11J052-06	Soil	EPA 6020	10/04/11 09:26	10/07/11 14:07	0.521g/50mL	0.5g/50mL	0.96
A11J052-09	Soil	EPA 6020	10/04/11 09:51	10/07/11 14:07	0.473g/50mL	0.5g/50mL	1.06
A11J052-10	Soil	EPA 6020	10/04/11 09:48	10/07/11 14:07	0.499g/50mL	0.5g/50mL	1.00
A11J052-12	Soil	EPA 6020	10/04/11 10:28	10/07/11 14:07	0.52g/50mL	0.5g/50mL	0.96
A11J052-13	Soil	EPA 6020	10/04/11 10:25	10/07/11 14:07	0.525g/50mL	0.5g/50mL	0.95
A11J052-15	Soil	EPA 6020	10/04/11 11:06	10/07/11 14:07	0.46g/50mL	0.5g/50mL	1.09
A11J052-16	Soil	EPA 6020	10/04/11 10:54	10/07/11 14:07	0.518g/50mL	0.5g/50mL	0.97
A11J052-19	Soil	EPA 6020	10/04/11 11:26	10/07/11 14:07	0.453g/50mL	0.5g/50mL	1.10
A11J052-20	Soil	EPA 6020	10/04/11 11:26	10/07/11 14:07	0.466g/50mL	0.5g/50mL	1.07
A11J052-21	Soil	EPA 6020	10/04/11 11:22	10/07/11 14:07	0.51g/50mL	0.5g/50mL	0.98
Batch: 1110213							
A11J011-06	Soil	EPA 6020	09/30/11 13:29	10/12/11 08:13	0.505g/50mL	0.5g/50mL	0.99
A11J011-08	Soil	EPA 6020	09/30/11 14:02	10/12/11 08:13	0.52g/50mL	0.5g/50mL	0.96
Batch: 1110232							
A11J032-18	Soil	EPA 6020	10/03/11 12:58	10/12/11 12:01	0.524g/50mL	0.5g/50mL	0.95

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

Notes and Definitions

Qualifiers:

Q-01	Percent recovery and/or RPD is outside acceptance limits.
Q-03	Percent recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-05	Analyses are not controlled on RPD values from sample or duplicate concentrations near or below the reporting level.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Philip Nerenberg, Lab Director

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503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

A11I031

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 796-0717 - Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Dan Ungulane-Dan Hahn

Liquid with Sediment Sample: Test Filtrate ____ Test Sediment ____ Test Both ____
Multi-Phase Sample: Test Dissolved ____ Test Separately ____ Mixture ____

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-110901-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cu, Pb, Ag (EPA Method 6010)	Rush	Remarks
1	01-A	1-Sep-11	838	0.0 - 0.5' bgs	x			1	X		
2	01-B	1-Sep-11	850	0.5 - 1.0' bgs	x			1			
3	01-C	1-Sep-11	902	1.0 - 1.5' bgs	x			1			
4	15-A	1-Sep-11	932	0.0 - 0.5' bgs	x			1	X		
5	15-B	1-Sep-11	941	0.5 - 1.0' bgs	x			1			
6	15-C	1-Sep-11	955	1.0 - 1.5' bgs	x			1			
7	22-A	1-Sep-11	1021	0.0 - 0.5' bgs	x			1	X		
8	22-B	1-Sep-11	1030	0.5 - 1.0' bgs	x			1			
9	22-C	1-Sep-11	1043	1.0 - 1.5' bgs	x			1			
10	11-A	1-Sep-11	1124	0.0 - 0.5' bgs	x			1	X		
11	11-AD	1-Sep-11	1124	0.0 - 0.5' bgs	x			1	X		
12	11-B	1-Sep-11	1141	0.5 - 1.0' bgs	x			1			
13	11-C	1-Sep-11	1155	1.0 - 1.4' bgs	x			1			
14	23-A	1-Sep-11	1400	0.0 - 0.5' bgs	x			1	X		
15	23-B	1-Sep-11	1400	0.5 - 1.0' bgs	x			1			
16	23-C	1-Sep-11	1415	1.0 - 1.5' bgs	x			1			
17	18-A	1-Sep-11	1438	0.0 - 0.5' bgs	x			1	X		
18	18-B	1-Sep-11	1445	0.5 - 1.0' bgs	x			1			
19	18-C	1-Sep-11	1505	1.0 - 1.5' bgs	x			1			
20	17-A	1-Sep-11	1529	0.0 - 0.5' bgs	x			1	X		
21	17-B	1-Sep-11	1541	0.5 - 1.0' bgs	x			1			
22	17-C	1-Sep-11	1555	1.0 - 1.5' bgs	x			1			
23	02-A	1-Sep-11	847	0.0 - 0.5' bgs	x			1	X		
24	02-B	1-Sep-11	851	0.5 - 1.0' bgs	x			1			
25	02-C	1-Sep-11	856	1.0 - 1.5' bgs	x			1			
26	27-A	1-Sep-11	912	0.0 - 0.5' bgs	x			1	X		
27	27-B	1-Sep-11	937	0.5 - 1.0' bgs	x			1			
28	27-C	1-Sep-11	947	1.0 - 1.5' bgs	x			1			
29	26-A	1-Sep-11	1014	0.0 - 0.5' bgs	x			1	X		
30	26-B	1-Sep-11	1022	0.5 - 1.0' bgs	x			1			
31	26-C	1-Sep-11	1028	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
KJS B.Ede	HAH	9-2-11	1040	[illegible]	APEX
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Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

A11I063

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 · Portland OR 97209
(503) 796-0717 · Fax (503) 227-2229

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Urquhart-Clair Kane

Liquid with Sediment Sample: Test Filtrate ____ Test Sediment ____ Test Both
Multi-Phase Sample: Test One (where) ____ Test Separately ____ Grab

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-110902-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	RUSH	Remarks
1	29-A	2-Sep-11	918	0.0 - 0.5' BGS	x			1	X		
2	29-B	2-Sep-11	920	0.5 - 1.0' BGS	x			1			
3	29-C	2-Sep-11	938	1.0 - 1.5' BGS	x			1			
4	30-A	2-Sep-11	1005	0.0 - 0.5' BGS	x			1	X		
5	30-B	2-Sep-11	1015	0.5 - 1.0' BGS	x			1			
6	30-C	2-Sep-11	1028	1.0 - 1.5' BGS	x			1			
7	06-A	2-Sep-11	1047	0.0 - 0.5' BGS	x			1	X		
8	06-B	2-Sep-11	1054	0.5 - 1.0' BGS	x			1			
9	06-C	2-Sep-11	1102	1.0 - 1.5' BGS	x			1			
10	37-A	2-Sep-11	1316	0.0 - 0.5' BGS	x			1	X		
11	37-B	2-Sep-11	1320	0.5 - 1.0' BGS	x			1			
12	37-C	2-Sep-11	1325	1.0 - 1.5' BGS	x			1			
13	32-A	2-Sep-11	1345	0.0 - 0.5' BGS	x			1	X		
14	32-B	2-Sep-11	1353	0.5 - 1.0' BGS	x			1			
15	32-C	2-Sep-11	1400	1.0 - 1.5' BGS	x			1			
16	35-A	2-Sep-11	902	0.0 - 0.5' BGS	x			1	X		
17	35-B	2-Sep-11	920	0.5 - 1.0' BGS	x			1			
18	35-C	2-Sep-11	940	1.0 - 1.5' BGS	x			1			
19	43-A	2-Sep-11	1000	0.0 - 0.5' BGS	x			1	X		
20	43-B	2-Sep-11	1015	0.5 - 1.0' BGS	x			1			
21	43-BD	2-Sep-11	1015	0.5 - 1.0' BGS	x			1			
22	43-C	2-Sep-11	1037	1.0 - 1.5' BGS	x			1			
23	43-A	2-Sep-11	1100	0.0 - 0.5' BGS	x			1	X		
24	43-B	2-Sep-11	1107	0.5 - 1.0' BGS	x			1			
25	43-C	2-Sep-11	1115	1.0 - 1.5' BGS	x			1			
26	39-A	2-Sep-11	1310	0.0 - 0.5' BGS	x			1	X		
27	39-B	2-Sep-11	1323	0.5 - 1.0' BGS	x			1			
28	39-C	2-Sep-11	1336	1.0 - 1.5' BGS	x			1			
29	38-A	2-Sep-11	1357	0.0 - 0.5' BGS	x			1	X		
30	38-B	2-Sep-11	1405	0.5 - 1.0' BGS	x			1			
31	38-C	2-Sep-11	1414	1.0 - 1.5' BGS	x			1			
32	37-AD	2-Sep-11	1310	0.0 - 0.5' BGS	x			1			

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RJ B. Ede	HAI	9/6/11	1249	[illegible]	Apex
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Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Pint Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:46

A11I095

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 706-0717 • Fax (503) 227-2309

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Pint Creek Trestle
Collected by: Bob Utz/Jane Cole Kevin

Liquid with Sediment Sample: Test Filtrate ____ Test Sediment ____ Test Solids ____
Multi-Phase Sample: Test One (where) ____ Test Secondary ____ State ____

Samples Received at 4C (Y or N): ____
Appropriate Containers Used (Y or N): ____
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Sample Number Prefix: PNT-110907-

All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	RUSH	Remarks
1	13-A	7-Sep-11	921	0.0 - 0.5' bgs	x			1	X		
2	13-B	7-Sep-11	926	0.5 - 1.0' bgs	x			1			
3	13-C	7-Sep-11	933	1.0 - 1.5' bgs	x			1			
4	24-A	7-Sep-11	958	0.0 - 0.5' bgs	x			1	X		
5	24-B	7-Sep-11	1017	0.5 - 1.0' bgs	x			1			
6	24-C	7-Sep-11	1027	1.0 - 1.5' bgs	x			1			
7	48B	7-Sep-11	1048	0.0 - 0.5' bgs	x			1	X		
8	48BD	7-Sep-11	1048	0.0 - 0.5' bgs	x			1	X		
9	47B	7-Sep-11	1102	0.0 - 0.5' bgs	x			1	X		
10	46B	7-Sep-11	1122	0.0 - 0.5' bgs	x			1	X		
11	25-A	7-Sep-11	929	0.0 - 0.5' bgs	x			1	X		
12	25-B	7-Sep-11	935	0.5 - 1.0' bgs	x			1			
13	25-C	7-Sep-11	943	1.0 - 1.5' bgs	x			1			
14	19-A	7-Sep-11	1011	0.0 - 0.5' bgs	x			1	X		
15	19-B	7-Sep-11	1020	0.5 - 1.0' bgs	x			1			
16	19-C	7-Sep-11	1023	1.0 - 1.5' bgs	x			1			
17	12-A	7-Sep-11	1055	0.0 - 0.5' bgs	x			1	X		
18	12-AD	7-Sep-11	1055	0.0 - 0.5' bgs	x			1			
19	12-B	7-Sep-11	1114	0.5 - 1.0' bgs	x			1			
20	12-C	7-Sep-11	1118	1.0 - 1.5' bgs	x			1			
21	46B	7-Sep-11	1133	0.0 - 0.5' bgs	x			1	X		

Relinquished by	Company	Date	Time	Received by	Company
RGB Ede	HAI	9-8-11	9:48	[illegible]	Apex

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

A11I096

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2206

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Pint Creek Trestle
Collected by: Ben Uhlzane-Clair Kerin

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Mixture

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-110936-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domino; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	RUSH	Remarks
1	34-A	6-Sep-11	925	0.0 - 0.5' bgs	x			1	X		
2	34-B	6-Sep-11	933	0.5 - 1.0' bgs	x			1			
3	34-C	6-Sep-11	941	1.0 - 1.5' bgs	x			1			
4	31-A	6-Sep-11	1008	0.0 - 0.5' bgs	x			1	X		
5	31-AD	6-Sep-11	1009	0.0 - 0.5' bgs	x			1			
6	31-B	6-Sep-11	1022	0.5 - 1.0' bgs	x			1			
7	31-C	6-Sep-11	1027	1.0 - 1.5' bgs	x			1			
8	42-A	6-Sep-11	1059	0.0 - 0.5' bgs	x			1	X		
9	42-B	6-Sep-11	1113	0.5 - 1.0' bgs	x			1			
10	42-C	6-Sep-11	1138	1.0 - 1.5' bgs	x			1			
11	44-A	6-Sep-11	1335	0.0 - 0.5' bgs	x			1	X		
12	44-B	6-Sep-11	1343	0.5 - 1.0' bgs	x			1			
13	44-C	6-Sep-11	1350	1.0 - 1.5' bgs	x			1			
14	41-A	6-Sep-11	1411	0.0 - 0.5' bgs	x			1	X		
15	41-B	6-Sep-11	1417	0.5 - 1.0' bgs	x			1			
16	41-C	6-Sep-11	1426	1.0 - 1.5' bgs	x			1			
17	36-A	6-Sep-11	1445	0.0 - 0.5' bgs	x			1	X		
18	36-B	6-Sep-11	1454	0.5 - 1.0' bgs	x			1			
19	36-C	6-Sep-11	1508	1.0 - 1.5' bgs	x			1			
20	21-A	6-Sep-11	1532	0.0 - 0.5' bgs	x			1	X		
21	21-B	6-Sep-11	1543	0.5 - 1.0' bgs	x			1			
22	21-C	6-Sep-11	1600	1.0 - 1.5' bgs	x			1			
23	09-A	6-Sep-11	925	0.0 - 0.5' bgs	x			1	X		
24	09-B	6-Sep-11	934	0.5 - 1.0' bgs	x			1			
25	09-C	6-Sep-11	947	1.0 - 1.5' bgs	x			1			
26	16-A	6-Sep-11	1006	0.0 - 0.5' bgs	x			1	X		
27	16-B	6-Sep-11	1015	0.5 - 1.0' bgs	x			1			
28	16-C	6-Sep-11	1023	1.0 - 1.5' bgs	x			1			
29	10-A	6-Sep-11	1040	0.0 - 0.5' bgs	x			1	X		
30	10-B	6-Sep-11	1050	0.5 - 1.0' bgs	x			1			
31	10-C	6-Sep-11	1102	1.0 - 1.5' bgs	x			1			
32	33-A	6-Sep-11	1127	0.0 - 0.5' bgs	x			1	X		
33	33-B	6-Sep-11	1148	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
RG B. Ede	HAI	9-8-11	948	[illegible]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

A11J011

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Pint Creek Trestle
Collected by: Ben Utt

Liquid with Sediment Sample — Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample — Test One (which) / Test Separately / Shake

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-110930-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Pb (EPA Method 6010)									RUSH	Remarks
	12-D	30-Sep-11	1322	1.5 - 2.0' bgs	X			1	X										
	12-E	30-Sep-11	1315	2.0 - 2.5' bgs	X			1	X										
	12-F	30-Sep-11	1309	2.5 - 3.0' bgs	X			1											
	29-D	30-Sep-11	1343	1.5 - 2.0' bgs	X			1	X										
	29-E	30-Sep-11	1336	2.0 - 2.5' bgs	X			1	X										Wet
	29-F	30-Sep-11	1329	2.5 - 3.0' bgs	X			1											Wet
	56-A	30-Sep-11	1411	0.0 - 0.5' bgs	X			1	X										
	56-B	30-Sep-11	1402	0.5 - 1.0' bgs	X			1											
	56-C	30-Sep-11	1358	1.0 - 1.5' bgs	X			1											
	57-A	30-Sep-11	1457	0.0 - 0.5' bgs	X			1	X										
	57-AD	30-Sep-11	1457	0.0 - 0.5' bgs	X			1	X										
	57-B	30-Sep-11	1448	0.5 - 1.0' bgs	X			1											
	57-C	30-Sep-11	1435	1.0 - 1.5' bgs	X			1											

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	HAI	10/3/11	1020	Jennifer [illegible]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Pint Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:46

A11J032

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Pint Creek Trestle
Collected by: Ben Uhl

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Shake

Samples Received at 0C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-111003-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domino; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Arsenic, Lead, Chromium (EPA 6010 or 6020)											Remarks
	52-A	3-Oct-11	915	0.0 - 0.5' bgs	X			1	X											
	52-B	3-Oct-11	912	0.5 - 1.0' bgs	X			1												
	52-C	3-Oct-11	910	1.0 - 1.5' bgs	X			1												
	53-A	3-Oct-11	942	0.0 - 0.5' bgs	X			1	X											
	53-B	3-Oct-11	938	0.5 - 1.0' bgs	X			1												
	53-C	3-Oct-11	935	1.0 - 1.5' bgs	X			1												
	35-D	3-Oct-11	1022	1.5 - 2.0' bgs	X			1	X											
	35-E	3-Oct-11	1019	2.0 - 2.5' bgs	X			1	X											
	35-F	3-Oct-11	1015	2.5 - 3.0' bgs	X			1												
	35-D	3-Oct-11	1050	1.5 - 2.0' bgs	X			1	X											
	35-E	3-Oct-11	1045	2.0 - 2.5' bgs	X			1	X											
	35-F	3-Oct-11	1043	2.5 - 3.0' bgs	X			1												
	51-A	3-Oct-11	1113	0.0 - 0.5' bgs	X			1	X											
	51-B	3-Oct-11	1110	0.5 - 1.0' bgs	X			1												
	51-C	3-Oct-11	1105	1.0 - 1.5' bgs	X			1												
	50-A	3-Oct-11	1302	0.0 - 0.5' bgs	X			1	X											
	50-AD	3-Oct-11	1302	0.0 - 0.5' bgs	X			1	X											
	50-B	3-Oct-11	1258	0.5 - 1.0' bgs	X			1												
	50-C	3-Oct-11	1250	1.0 - 1.5' bgs	X			1												
	49-A	3-Oct-11	1325	0.0 - 0.5' bgs	X			1	X											
	49-B	3-Oct-11	1322	0.5 - 1.0' bgs	X			1												
	49-C	3-Oct-11	1319	1.0 - 1.5' bgs	X			1												
	54-A	3-Oct-11	1348	0.0 - 0.5' bgs	X			1	X											
	54-B	3-Oct-11	1346	0.5 - 1.0' bgs	X			1												
	54-C	3-Oct-11	1343	1.0 - 1.5' bgs	X			1												
	55-A	3-Oct-11	1403	0.0 - 0.5' bgs	X			1	X											
	55-B	3-Oct-11	1400	0.5 - 1.0' bgs	X			1												
	55-C	3-Oct-11	1357	1.0 - 1.5' bgs	X			1												
	56-A	3-Oct-11	1431	0.0 - 0.5' bgs	X			1	X											
	56-B	3-Oct-11	1428	0.5 - 1.0' bgs	X			1												
	56-BD	3-Oct-11	1428	0.5 - 1.0' bgs	X			1												
	56-C	3-Oct-11	1415	1.0 - 1.5' bgs	X			1												

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	AHI	10/4/11	11:20	[illegible]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Pint Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:46

All to 02

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW 6th Avenue, Suite 203 • Portland OR 97209
(503) 795-0717 • Fax (503) 227-0209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Pint Creek Trestle
Collected by: Ben Uhl

Liquid with Sediment Sample — Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample — Test One (whole) / Test Separately / Shake

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-111004-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analysis to be Performed: Arsenic, Lead, Chromium (EPA Method 6010)	RUSH	Remarks
1	03-C	4-Oct-11	909	1.0 - 1.5' bgs	X			1	X		
2	03-D	4-Oct-11	906	1.5 - 2.0' bgs	X			1	X		
3	03-E	4-Oct-11	904	2.0 - 2.5' bgs	X			1			
4	03-F	4-Oct-11	901	2.5 - 3.0' bgs	X			1			
5	25-D	4-Oct-11	930	1.5 - 2.0' bgs	X			1	X		
6	25-E	4-Oct-11	926	2.0 - 2.5' bgs	X			1	X		
7	25-EE	4-Oct-11	926	2.0 - 2.5' bgs	X			1			
8	25-F	4-Oct-11	922	2.5 - 3.0' bgs	X			1			
9	04-D	4-Oct-11	951	1.5 - 2.0' bgs	X			1	X		
10	04-E	4-Oct-11	948	2.0 - 2.5' bgs	X			1	X		
11	04-F	4-Oct-11	945	2.5 - 3.0' bgs	X			1			
12	05-D	4-Oct-11	1030	1.5 - 2.0' bgs	X			1	X		
13	05-E	4-Oct-11	1025	2.0 - 2.5' bgs	X			1	X		
14	05-F	4-Oct-11	1022	2.5 - 3.0' bgs	X			1			
15	06-C	4-Oct-11	1106	1.0 - 1.5' bgs	X			1	X		
16	06-D	4-Oct-11	1054	1.5 - 2.0' bgs	X			1	X		
17	06-E	4-Oct-11	1051	2.0 - 2.5' bgs	X			1			
18	06-F	4-Oct-11	1048	2.5 - 3.0' bgs	X			1			
19	08-D	4-Oct-11	1128	1.5 - 2.0' bgs	X			1	X		
20	08-DD	4-Oct-11	1126	1.5 - 2.0' bgs	X			1	X		
21	08-E	4-Oct-11	1122	2.0 - 2.5' bgs	X			1	X		
22	08-F	4-Oct-11	1118	2.5 - 3.0' bgs	X			1			

Relinquished by	Company	Date	Time	Received by	Company
RSA	HAI	6/8/11	915	Jennifer Sitton	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

A11I031

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 796-0717 - Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rick Ede
Project No.: 7985
Project Name: PGE - Canyon Creek Trestle
Collected by: Ben Uhl/Jess-Clair Kane

Liquid with Sediment Sample: Test Filtrate ____ Test Sediment ____ Test Both ____
Multi-Phase Sample: Test Dissolved ____ Test Separately ____ Grab ____

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-110901-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Dominic Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)									Remarks
32	03-A	1-Sep-11	1123	0.0 - 0.5' bgs	x			1	X									
33	03-AD	1-Sep-11	1123	0.0 - 0.5' bgs	x			1										
34	03-B	1-Sep-11	1141	0.5 - 1.0' bgs	x			1										
35	28-A	1-Sep-11	1427	0.0 - 0.5' bgs	x			1	X									
36	28-B	1-Sep-11	1422	0.5 - 1.0' bgs	x			1										
37	28-C	1-Sep-11	1432	1.0 - 1.5' bgs	x			1										
38	04-A	1-Sep-11	1500	0.0 - 0.5' bgs	x			1	X									
39	04-AD	1-Sep-11	1500	0.0 - 0.5' bgs	x			1										
40	04-B	1-Sep-11	1510	0.5 - 1.0' bgs	x			1										
41	04-C	1-Sep-11	1520	1.0 - 1.5' bgs	x			1										
42	05-A	1-Sep-11	1545	0.0 - 0.5' bgs	x			1	X									
43	05-B	1-Sep-11	1601	0.5 - 1.0' bgs	x			1										
44	05-C	1-Sep-11	1605	1.0 - 1.5' bgs	x			1										

Relinquished by	Company	Date	Time	Received by	Company
Rick B. Ede	HAI	9/2/11	1010	[illegible]	APEX
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

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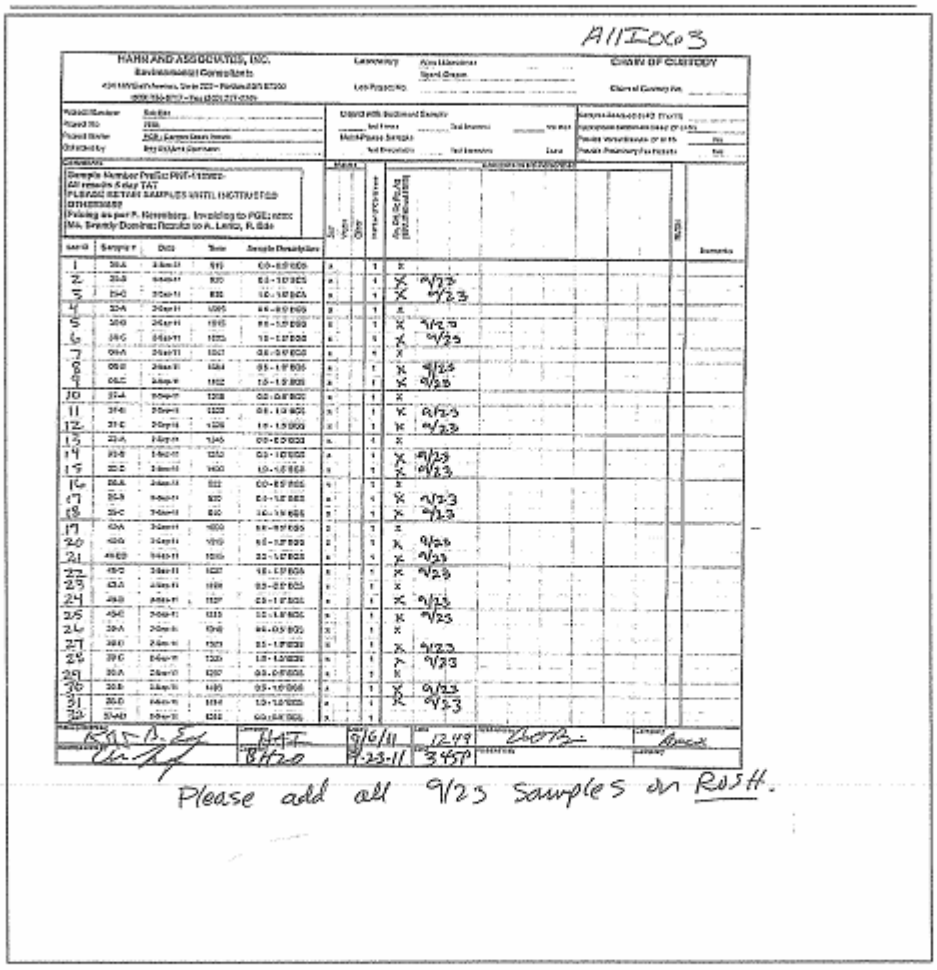
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

Apex Labs Cooler Receipt Summary Report



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Environmental Consultants

CHAIN OF CUSTODY

All Iceo3

Please add all 9/23 samples on Rush.

Page 4 of 4

Apex Laboratories

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Philip Nerenberg, Lab Director

Apex Labs

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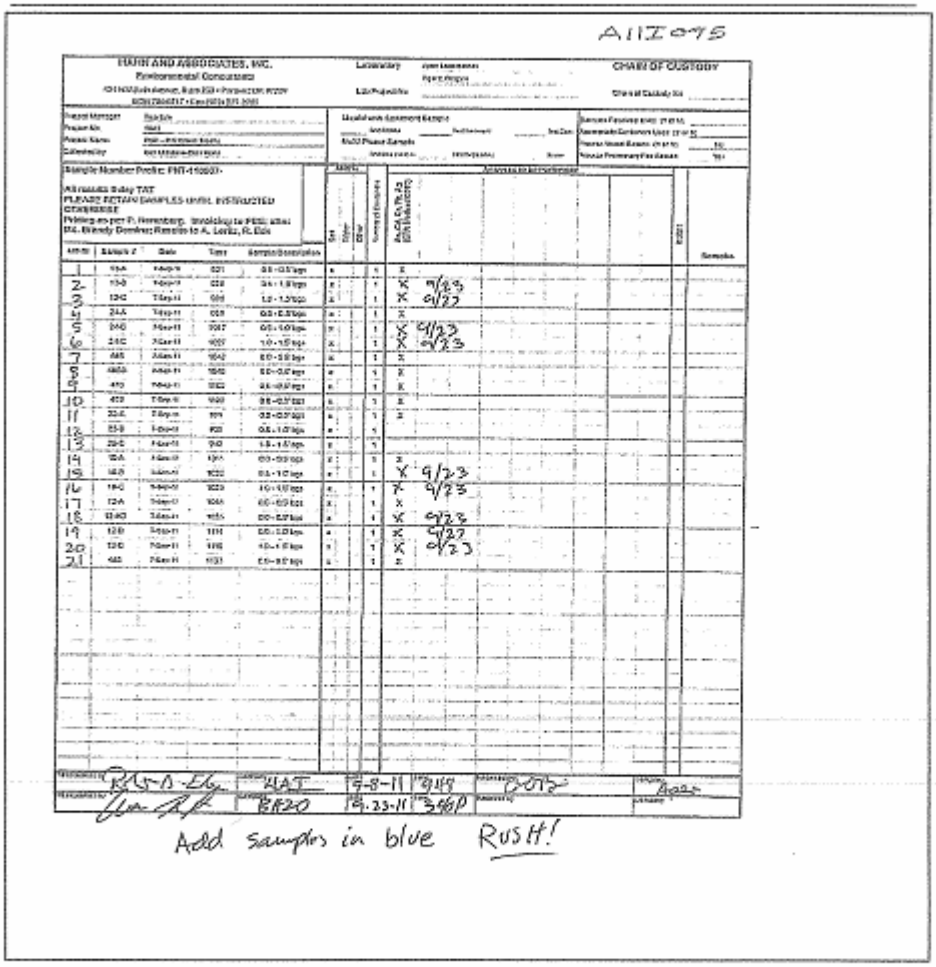
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

Apex Labs Cooler Receipt Summary Report



Page 3 of 3

Apex Laboratories

Philip Nerenberg

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Philip Nerenberg, Lab Director

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

A11I096

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Pint Creek Trestle
Collected by: Ben Uhl/Jason-Clair Kerin

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One Intact / Test Separately / Shake

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: PNT-110906-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domins; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)								Remarks
34	33-C	6-Sep-11	1153	1.0 - 1.5' bgs	x			1									
35	05-A	6-Sep-11	1339	0.0 - 0.5' bgs	x			1	X								
36	05-AD	6-Sep-11	1330	0.0 - 0.5' bgs	x			1									
37	05-B	6-Sep-11	1350	0.5 - 1.0' bgs	x			1									
38	05-C	6-Sep-11	1357	1.0 - 1.5' bgs													
39	07-A	6-Sep-11	1412	0.0 - 0.5' bgs	x			1	X								
40	07-B	6-Sep-11	1420	0.5 - 1.0' bgs	x			1									
41	07-C	6-Sep-11	1425	1.0 - 1.5' bgs	x			1									
42	14-A	6-Sep-11	1449	0.0 - 0.5' bgs	x			1	X								
43	14-B	6-Sep-11	1456	0.5 - 1.0' bgs	x			1									
44	14-C	6-Sep-11	1505	1.0 - 1.5' bgs	x			1									
45	20-A	6-Sep-11	1536	0.0 - 0.5' bgs	x			1	X								
46	20-B	6-Sep-11	1544	0.5 - 1.0' bgs	x			1									
47	20-C	6-Sep-11	1551	1.0 - 1.5' bgs	x			1									

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	HAF	9-8-11	948	[illegible]	Apex
Relinquished by	Company	Date	Time	Received by	Company

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
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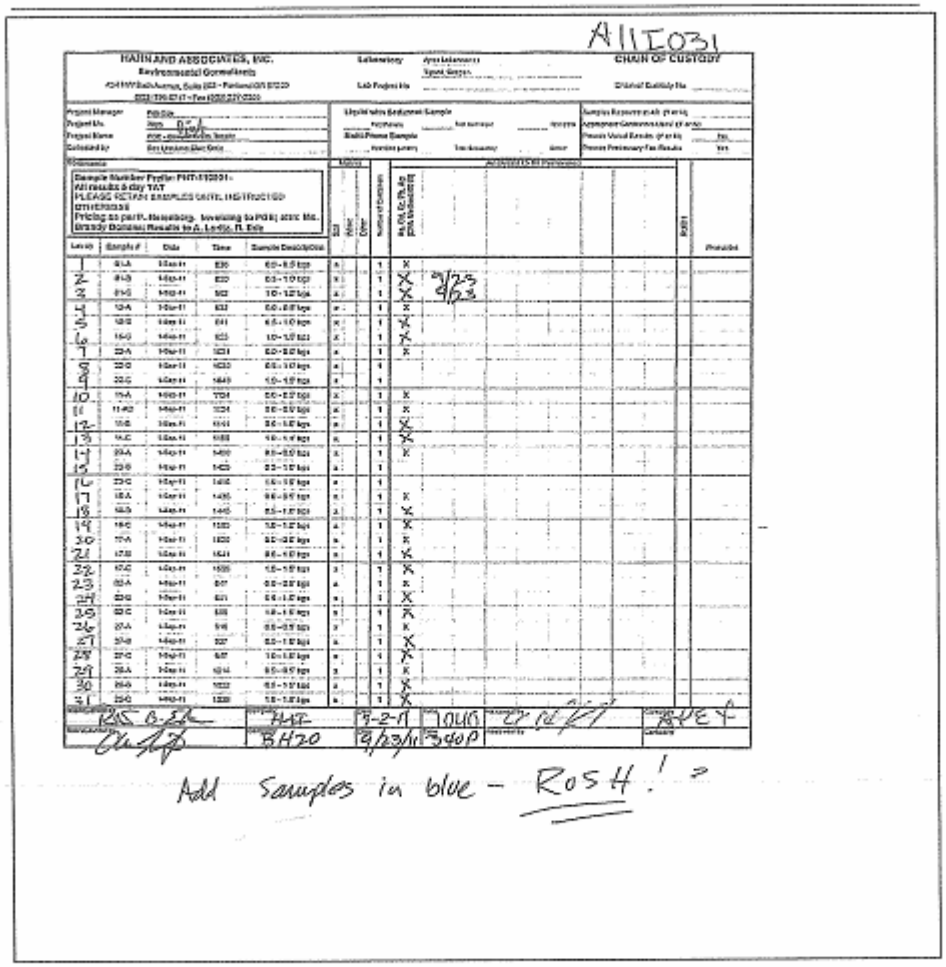
Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

Apex Labs Cooler Receipt Summary Report


A11E031

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CHAIN OF CUSTODY

Add Samples in blue – ROSH!

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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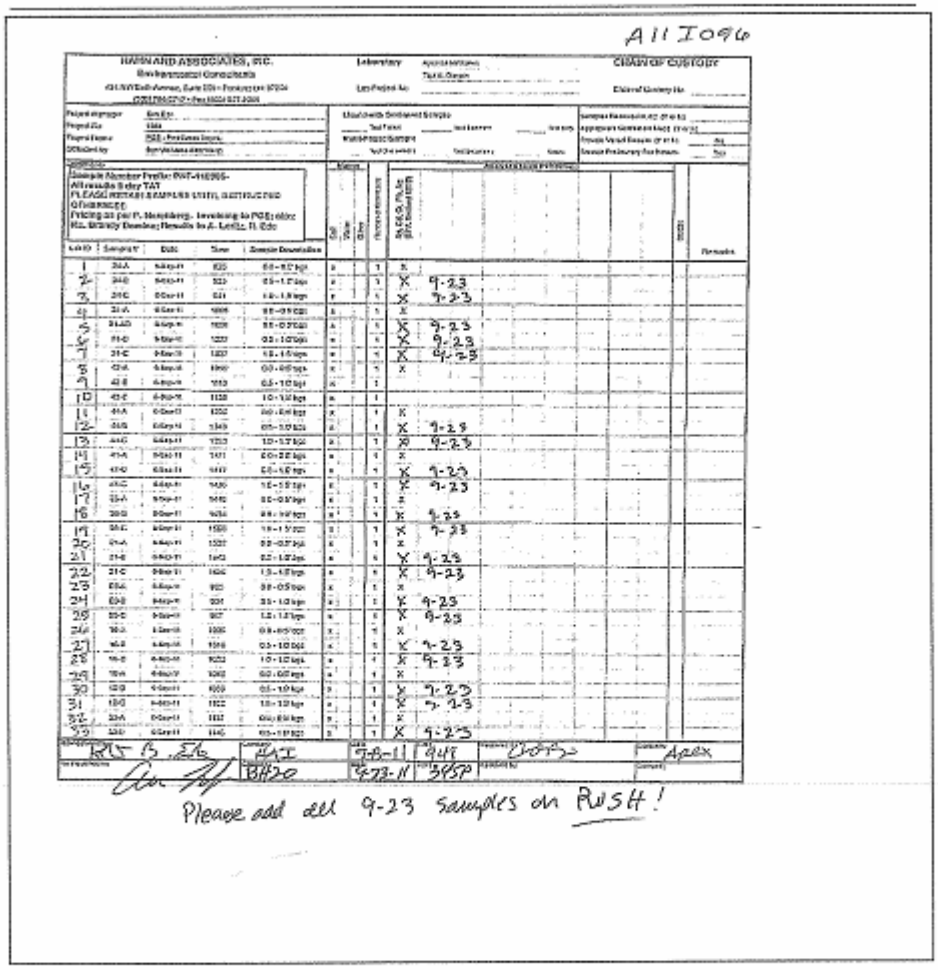
Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Pint Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 11/17/11 13:46

Apex Labs Cooler Receipt Summary Report



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Philip Nerenberg, Lab Director

Apex Labs

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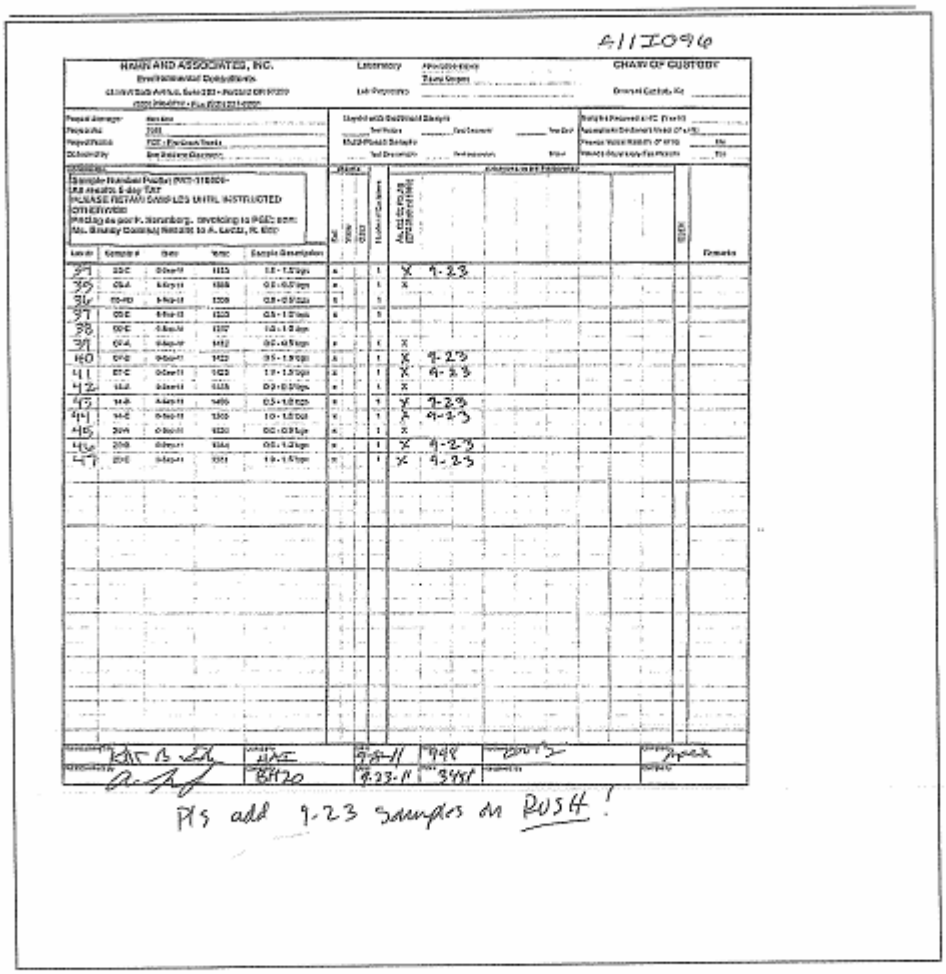
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Pint Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	11/17/11 13:46

Apex Labs Cooler Receipt Summary Report



Page 6 of 6

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Pint Creek Downstream Sediment and Water Samples

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, May 24, 2012

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE Oak Grove Trestles / [none]

Enclosed are the results of analyses for work order A12E272, which was received by the laboratory on 5/16/2012 at 4:00:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

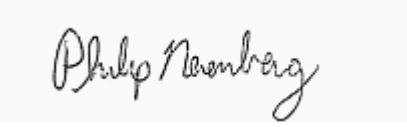
Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PNT-120516-58S	A12E272-01	Soil	05/16/12 13:54	05/16/12 16:00
PNT-120516-59S	A12E272-02	Soil	05/16/12 14:10	05/16/12 16:00
PNT-120516-60W	A12E272-03	Water	05/16/12 14:00	05/16/12 16:00

Apex Laboratories



Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-120516-58S (A12E272-01)			**Matrix: Soil**					
Batch: 1205365								
Arsenic	**3.05**	---	2.96	mg/kg dry	10	05/18/12 11:29	EPA 6020	
Chromium	**39.4**	---	2.96	"	"	"	"	
Lead	**9.02**	---	1.48	"	"	"	"	
PNT-120516-59S (A12E272-02)			**Matrix: Soil**					
Batch: 1205365								
Arsenic	**4.40**	---	3.50	mg/kg dry	10	05/18/12 11:37	EPA 6020	
Chromium	**46.1**	---	3.50	"	"	"	"	
Lead	**5.90**	---	1.75	"	"	"	"	
PNT-120516-60W (A12E272-03)			**Matrix: Water**					
Batch: 1205363								
Arsenic	ND	0.500	2.00	ug/L	1	05/18/12 11:17	EPA 6020	
Chromium	**1.22**	0.500	2.00	"	"	"	"	J
Lead	ND	0.500	1.00	"	"	"	"	

Apex Laboratories

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
PNT-120516-58S (A12E272-01)			**Matrix: Soil**		**Batch: 1205366**			
% Solids	**63.9**	---	1.00	% by Weight	1	05/18/12 10:00	Apex SOP	
PNT-120516-59S (A12E272-02)			**Matrix: Soil**		**Batch: 1205366**			
% Solids	**61.0**	---	1.00	% by Weight	1	05/18/12 10:00	Apex SOP	

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Philip Nerenberg, Lab Director

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503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1205363 - EPA 3015A							**Water**					
Blank (1205363-BLK1)					Prepared: 05/17/12 13:49		Analyzed: 05/18/12 10:32					
EPA 6020												
Arsenic	ND	0.500	2.00	ug/L	1	---	---	---	---	---	---	
Chromium	ND	0.500	2.00	"	"	---	---	---	---	---	---	
Lead	ND	0.500	1.00	"	"	---	---	---	---	---	---	
LCS (1205363-BS1)					Prepared: 05/17/12 13:49		Analyzed: 05/18/12 10:35					
EPA 6020												
Arsenic	53.4	0.500	2.00	ug/L	1	55.6	---	96	85-115%	---	---	
Chromium	52.4	0.500	2.00	"	"	"	---	94	80-120%	---	---	
Lead	56.1	0.500	1.00	"	"	"	---	101	"	---	---	
Matrix Spike (1205363-MS1)					Prepared: 05/17/12 13:49		Analyzed: 05/18/12 11:20					
QC Source Sample: PNT-120516-60W (A12E272-03)												
EPA 6020												
Arsenic	54.6	0.500	2.00	ug/L	1	55.6	ND	98	70-130%	---	---	
Chromium	54.1	0.500	2.00	"	"	"	1.22	95	75-125%	---	---	
Lead	55.8	0.500	1.00	"	"	"	ND	100	"	---	---	
Batch 1205365 - EPA 3051A							**Soil**					
Blank (1205365-BLK1)					Prepared: 05/17/12 14:15		Analyzed: 05/18/12 11:23					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1205365-BS1)					Prepared: 05/17/12 14:15		Analyzed: 05/18/12 11:26					
EPA 6020												
Arsenic	51.7	---	2.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Chromium	47.6	---	2.00	"	"	"	---	95	"	---	---	
Lead	51.7	---	1.00	"	"	"	---	103	"	---	---	
Duplicate (1205365-DUP1)					Prepared: 05/17/12 14:15		Analyzed: 05/18/12 11:32					
QC Source Sample: PNT-120516-58S (A12E272-01)												
EPA 6020												
Arsenic	ND	---	2.96	mg/kg dry	10	---	3.05	---	---	***	40%	

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Philip Nerenberg, Lab Director

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503-718-0333 Fax

Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1205365 - EPA 3051A							**Soil**					
Duplicate (1205365-DUP1)					Prepared: 05/17/12 14:15		Analyzed: 05/18/12 11:32					
QC Source Sample: PNT-120516-58S (A12E272-01)												
Chromium	**33.1**	---	2.96	mg/kg dry	"	---	39.4	---	---	17	40%	
Lead	**4.56**	---	1.48	"	"	---	9.02	---	---	66	40%	Q-01
Matrix Spike (1205365-MS1)					Prepared: 05/17/12 14:15		Analyzed: 05/18/12 11:35					
QC Source Sample: PNT-120516-58S (A12E272-01)												
EPA 6020												
Arsenic	89.8	---	3.37	mg/kg dry	10	84.2	3.05	103	75-125%	---	---	
Chromium	125	---	3.37	"	"	"	39.4	102	"	---	---	
Lead	90.0	---	1.68	"	"	"	9.02	96	"	---	---	

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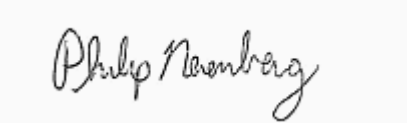

Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch 1205366 - Total Solids (Dry Weight) **Soil**

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Philip Nerenberg, Lab Director

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Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1205363							
A12E272-03	Water	EPA 6020	05/16/12 14:00	05/17/12 13:49	45mL/50mL	45mL/50mL	1.00

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1205365							
A12E272-01	Soil	EPA 6020	05/16/12 13:54	05/17/12 14:15	0.529g/50mL	0.5g/50mL	0.95
A12E272-02	Soil	EPA 6020	05/16/12 14:10	05/17/12 14:15	0.468g/50mL	0.5g/50mL	1.07

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Bridgewater Group	Project: **PGE Oak Grove Trestles**	
4500 SW Kruse Way; Suite 110	Project Number: [none]	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	05/24/12 17:15

Notes and Definitions

Qualifiers:

J	Estimated Result . Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-01	Percent recovery and/or RPD is outside acceptance limits.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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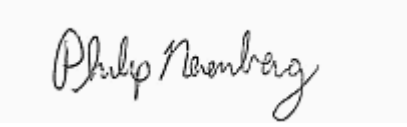

Philip Nerenberg, Lab Director

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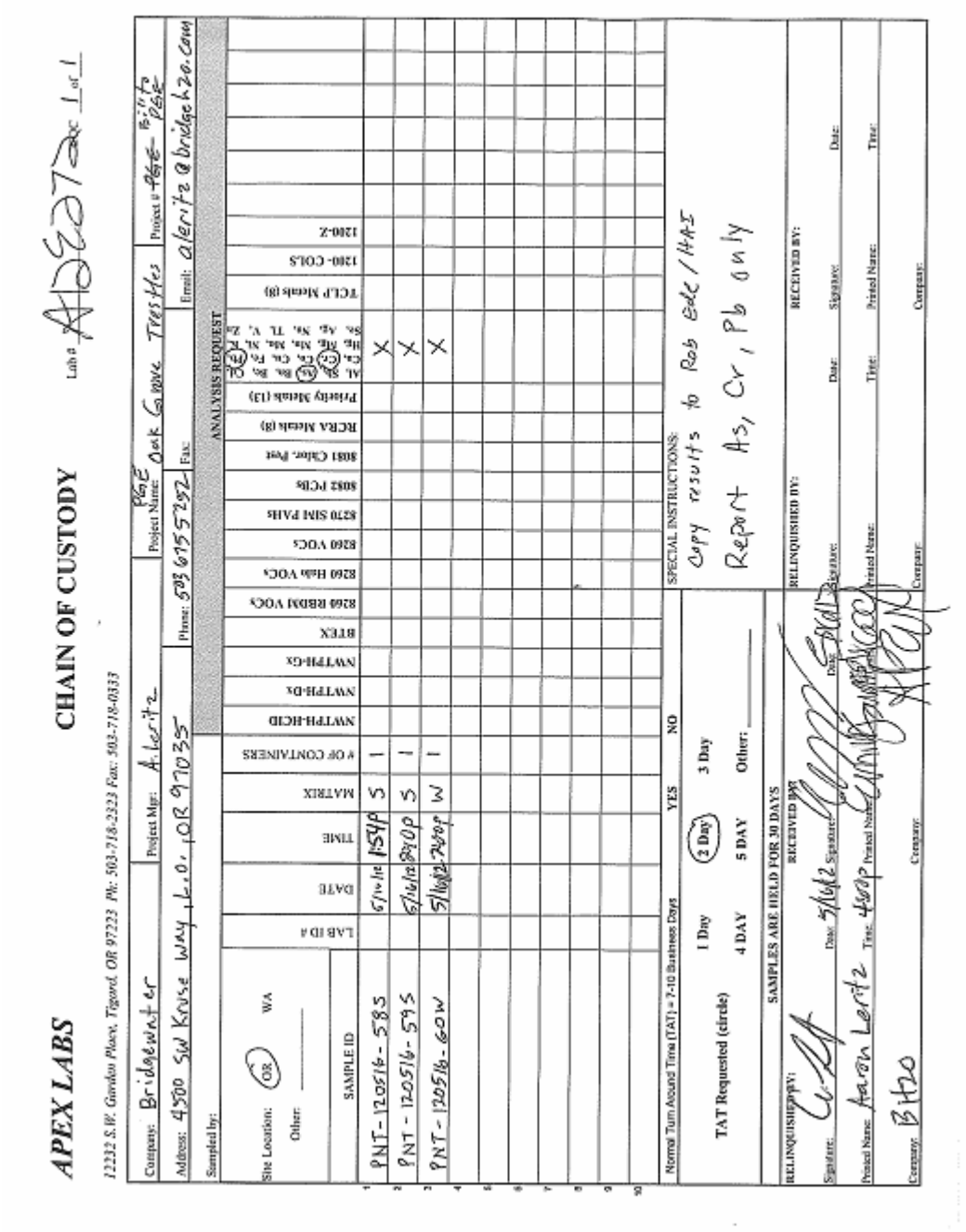
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE Oak Grove Trestles** Project Number: [none] Project Manager: Aaron Leritz	**Reported:** 05/24/12 17:15



APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

CHAIN OF CUSTODY

Lab # A0507 Doc 1 of 1

Company: Bridgewater Project Mgr: A. Leritz Project Name: PGE Oak Grove Trestles Project # PGE Pstr

Address: 4500 SW Kruse Way, L.O., OR 97035 Phone: 503 6155292 Fax: Email: aleritz@bridgeh2o.com

Sampled by:

Site Location: OR WA Other: _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	BTEX	8260 BRDDI VOCs	8260 Halo VOCs	8260 VOCs	8270 SIM PAHs	8082 PCBs	8081 Chlor. Pest	RCRA Metals (8)	Priority Metals (13)	AL, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TCLP Metals (8)	1200-COLS	1200-Z
1 PNT-120516-58S		5/16/12	1540	S	1													X			
2 PNT-120516-59S		5/16/12	0920	S	1													X			
3 PNT-120516-60W		5/16/12	2000	W	1													X			
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Normal Turn Around Time (TAT) = 7-10 Business Days YES NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: Copy results to Rob Ede / HAI Report As, Cr, Pb only

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Date: Time: Printed Name: Company:

RECEIVED BY: Signature: Date: Time: Printed Name: Company:

RELINQUISHED BY: Signature: Date: Time: Printed Name: Company:

RECEIVED BY: Signature: Date: Time: Printed Name: Company:

Apex Laboratories

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Philip Nerenberg, Lab Director

Appendix E – Laboratory Analytical Reports for Cripple Creek Soils and Sediments

Apex Labs

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, September 22, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I094, which was received by the laboratory on 9/8/2011 at 9:48:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110907-38-A	A11I094-01	Soil	09/07/11 14:43	09/08/11 09:48
CRP-110907-38-B	A11I094-02	Soil	09/07/11 14:52	09/08/11 09:48
CRP-110907-38-C	A11I094-03	Soil	09/07/11 14:58	09/08/11 09:48
CRP-110907-39-A	A11I094-04	Soil	09/07/11 15:26	09/08/11 09:48
CRP-110907-39-B	A11I094-05	Soil	09/07/11 15:35	09/08/11 09:48
CRP-110907-39-C	A11I094-06	Soil	09/07/11 15:45	09/08/11 09:48
CRP-110907-43-A	A11I094-07	Soil	09/07/11 14:45	09/08/11 09:48
CRP-110907-43-AD	A11I094-08	Soil	09/07/11 14:45	09/08/11 09:48
CRP-110907-43-B	A11I094-09	Soil	09/07/11 14:50	09/08/11 09:48
CRP-110907-43-C	A11I094-10	Soil	09/07/11 14:55	09/08/11 09:48
CRP-110907-44-A	A11I094-11	Soil	09/07/11 15:30	09/08/11 09:48
CRP-110907-44-B	A11I094-12	Soil	09/07/11 15:41	09/08/11 09:48
CRP-110907-44-C	A11I094-13	Soil	09/07/11 15:48	09/08/11 09:48
CRP-110908-14-A	A11I167-01	Soil	09/08/11 09:06	09/12/11 10:30
CRP-110908-14-B	A11I167-02	Soil	09/08/11 09:15	09/12/11 10:30
CRP-110908-14-BD	A11I167-03	Soil	09/08/11 09:15	09/12/11 10:30
CRP-110908-14-C	A11I167-04	Soil	09/08/11 09:25	09/12/11 10:30
CRP-110908-21-A	A11I167-05	Soil	09/08/11 09:43	09/12/11 10:30
CRP-110908-21-B	A11I167-06	Soil	09/08/11 09:50	09/12/11 10:30
CRP-110908-21-C	A11I167-07	Soil	09/08/11 10:02	09/12/11 10:30
CRP-110908-27-A	A11I167-08	Soil	09/08/11 10:20	09/12/11 10:30
CRP-110908-27-B	A11I167-09	Soil	09/08/11 10:27	09/12/11 10:30
CRP-110908-27-C	A11I167-10	Soil	09/08/11 10:38	09/12/11 10:30
CRP-110908-28-A	A11I167-11	Soil	09/08/11 11:07	09/12/11 10:30
CRP-110908-28-B	A11I167-12	Soil	09/08/11 11:13	09/12/11 10:30
CRP-110908-28-C	A11I167-13	Soil	09/08/11 11:23	09/12/11 10:30
CRP-110908-42-A	A11I167-14	Soil	09/08/11 13:08	09/12/11 10:30
CRP-110908-36-A	A11I167-15	Soil	09/08/11 13:40	09/12/11 10:30
CRP-110908-36-B	A11I167-16	Soil	09/08/11 13:48	09/12/11 10:30
CRP-110908-36-C	A11I167-17	Soil	09/08/11 14:00	09/12/11 10:30
CRP-110908-37-A	A11I167-18	Soil	09/08/11 14:26	09/12/11 10:30
CRP-110908-37-B	A11I167-19	Soil	09/08/11 14:33	09/12/11 10:30
CRP-110908-37-C	A11I167-20	Soil	09/08/11 14:46	09/12/11 10:30
CRP-110908-31-A	A11I167-21	Soil	09/08/11 15:05	09/12/11 10:30
CRP-110908-31-B	A11I167-22	Soil	09/08/11 15:16	09/12/11 10:30

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110908-31-BD	A11I167-23	Soil	09/08/11 15:16	09/12/11 10:30
CRP-110908-31-C	A11I167-24	Soil	09/08/11 15:30	09/12/11 10:30
CRP-110908-20-A	A11I167-25	Soil	09/08/11 15:57	09/12/11 10:30
CRP-110908-20-B	A11I167-26	Soil	09/08/11 16:02	09/12/11 10:30
CRP-110908-20-C	A11I167-27	Soil	09/08/11 16:16	09/12/11 10:30
CRP-110908-15-A	A11I167-28	Soil	09/08/11 09:12	09/12/11 10:30
CRP-110908-15-B	A11I167-29	Soil	09/08/11 09:20	09/12/11 10:30
CRP-110908-15-C	A11I167-30	Soil	09/08/11 09:27	09/12/11 10:30
CRP-110908-16-A	A11I167-31	Soil	09/08/11 09:48	09/12/11 10:30
CRP-110908-16-B	A11I167-32	Soil	09/08/11 09:53	09/12/11 10:30
CRP-110908-16-C	A11I167-33	Soil	09/08/11 10:01	09/12/11 10:30
CRP-110908-23-A	A11I167-34	Soil	09/08/11 10:21	09/12/11 10:30
CRP-110908-23-B	A11I167-35	Soil	09/08/11 10:27	09/12/11 10:30
CRP-110908-23-C	A11I167-36	Soil	09/08/11 10:36	09/12/11 10:30
CRP-110908-22-A	A11I167-37	Soil	09/08/11 10:57	09/12/11 10:30
CRP-110908-22-B	A11I167-38	Soil	09/08/11 11:06	09/12/11 10:30
CRP-110908-22-C	A11I167-39	Soil	09/08/11 11:12	09/12/11 10:30
CRP-110908-41-A	A11I167-40	Soil	09/08/11 13:17	09/12/11 10:30
CRP-110908-41-B	A11I167-41	Soil	09/08/11 13:26	09/12/11 10:30
CRP-110908-41-C	A11I167-42	Soil	09/08/11 13:32	09/12/11 10:30
CRP-110908-35-A	A11I167-43	Soil	09/08/11 13:51	09/12/11 10:30
CRP-110908-35-B	A11I167-44	Soil	09/08/11 14:00	09/12/11 10:30
CRP-110908-35-C	A11I167-45	Soil	09/08/11 14:06	09/12/11 10:30
CRP-110908-40-A	A11I167-46	Soil	09/08/11 14:33	09/12/11 10:30
CRP-110908-40-AD	A11I167-47	Soil	09/08/11 14:33	09/12/11 10:30
CRP-110908-40-B	A11I167-48	Soil	09/08/11 14:40	09/12/11 10:30
CRP-110908-40-C	A11I167-49	Soil	09/08/11 14:47	09/12/11 10:30
CRP-110908-29-A	A11I167-50	Soil	09/08/11 15:12	09/12/11 10:30
CRP-110908-29-B	A11I167-51	Soil	09/08/11 15:18	09/12/11 10:30
CRP-110908-29-C	A11I167-52	Soil	09/08/11 15:23	09/12/11 10:30
CRP-110908-30-A	A11I167-53	Soil	09/08/11 15:41	09/12/11 10:30
CRP-110908-30-B	A11I167-54	Soil	09/08/11 15:52	09/12/11 10:30
CRP-110908-30-BD	A11I167-55	Soil	09/08/11 15:52	09/12/11 10:30
CRP-110908-30-C	A11I167-56	Soil	09/08/11 16:01	09/12/11 10:30
CRP-110909-RW01-A	A11I176-01	Soil	09/09/11 08:15	09/12/11 10:30

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110909-RW01-B	A11I176-02	Soil	09/09/11 08:27	09/12/11 10:30
CRP-110909-RW01-C	A11I176-03	Soil	09/09/11 08:41	09/12/11 10:30
CRP-110909-RW02-A	A11I176-04	Soil	09/09/11 09:02	09/12/11 10:30
CRP-110909-RW02-B	A11I176-05	Soil	09/09/11 09:08	09/12/11 10:30
CRP-110909-RW02-C	A11I176-06	Soil	09/09/11 09:20	09/12/11 10:30
CRP-110909-RW03-A	A11I176-07	Soil	09/09/11 10:32	09/12/11 10:30
CRP-110909-RW03-B	A11I176-08	Soil	09/09/11 10:40	09/12/11 10:30
CRP-110909-RW03-BD	A11I176-09	Soil	09/09/11 10:40	09/12/11 10:30
CRP-110909-RW03-C	A11I176-10	Soil	09/09/11 10:55	09/12/11 10:30
CRP-110909-RW04-A	A11I176-11	Soil	09/09/11 09:45	09/12/11 10:30
CRP-110909-RW04-B	A11I176-12	Soil	09/09/11 09:51	09/12/11 10:30
CRP-110909-RW04-C	A11I176-13	Soil	09/09/11 10:08	09/12/11 10:30
CRP-110909-32-A	A11I176-14	Soil	09/09/11 12:28	09/12/11 10:30
CRP-110909-32-B	A11I176-15	Soil	09/09/11 12:38	09/12/11 10:30
CRP-110909-32-C	A11I176-16	Soil	09/09/11 12:52	09/12/11 10:30
CRP-110909-33-A	A11I176-17	Soil	09/09/11 13:17	09/12/11 10:30
CRP-110909-33-B	A11I176-18	Soil	09/09/11 13:25	09/12/11 10:30
CRP-110909-33-C	A11I176-19	Soil	09/09/11 13:30	09/12/11 10:30
CRP-110909-34-A	A11I176-20	Soil	09/09/11 14:08	09/12/11 10:30
CRP-110909-34-AD	A11I176-21	Soil	09/09/11 14:08	09/12/11 10:30
CRP-110909-34-B	A11I176-22	Soil	09/09/11 14:16	09/12/11 10:30
CRP-110909-34-C	A11I176-23	Soil	09/09/11 14:22	09/12/11 10:30
CRP-110909-19-A	A11I176-24	Soil	09/09/11 08:22	09/12/11 10:30
CRP-110909-19-B	A11I176-25	Soil	09/09/11 08:27	09/12/11 10:30
CRP-110909-19-C	A11I176-26	Soil	09/09/11 08:33	09/12/11 10:30
CRP-110909-18-A	A11I176-27	Soil	09/09/11 08:49	09/12/11 10:30
CRP-110909-18-B	A11I176-28	Soil	09/09/11 08:57	09/12/11 10:30
CRP-110909-18-C	A11I176-29	Soil	09/09/11 09:05	09/12/11 10:30
CRP-110909-17-A	A11I176-30	Soil	09/09/11 09:26	09/12/11 10:30
CRP-110909-17-B	A11I176-31	Soil	09/09/11 09:33	09/12/11 10:30
CRP-110909-17-BD	A11I176-32	Soil	09/09/11 09:33	09/12/11 10:30
CRP-110909-17-C	A11I176-33	Soil	09/09/11 09:41	09/12/11 10:30
CRP-110909-11-A	A11I176-34	Soil	09/09/11 10:09	09/12/11 10:30
CRP-110909-11-B	A11I176-35	Soil	09/09/11 10:22	09/12/11 10:30
CRP-110909-11-C	A11I176-36	Soil	09/09/11 10:31	09/12/11 10:30

DRAFT REPORT

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Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110909-01-A	A11I176-37	Soil	09/09/11 10:49	09/12/11 10:30
CRP-110909-01-B	A11I176-38	Soil	09/09/11 11:03	09/12/11 10:30
CRP-110909-01-C	A11I176-39	Soil	09/09/11 11:10	09/12/11 10:30
CRP-110909-08-A	A11I176-40	Soil	09/09/11 12:33	09/12/11 10:30
CRP-110909-08-B	A11I176-41	Soil	09/09/11 12:45	09/12/11 10:30
CRP-110909-09-A	A11I176-42	Soil	09/09/11 13:19	09/12/11 10:30
CRP-110909-09-B	A11I176-43	Soil	09/09/11 13:40	09/12/11 10:30
CRP-110909-09-BD	A11I176-44	Soil	09/09/11 13:40	09/12/11 10:30
CRP-110909-09-C	A11I176-45	Soil	09/09/11 13:50	09/12/11 10:30
CRP-110909-10-A	A11I176-46	Soil	09/09/11 14:12	09/12/11 10:30
CRP-110909-10-B	A11I176-47	Soil	09/09/11 14:20	09/12/11 10:30
CRP-110909-10-C	A11I176-48	Soil	09/09/11 14:24	09/12/11 10:30
CRP-110912-24-A	A11I184-01	Soil	09/12/11 08:55	09/13/11 09:40
CRP-110912-24-B	A11I184-02	Soil	09/12/11 09:02	09/13/11 09:40
CRP-110912-24-C	A11I184-03	Soil	09/12/11 09:07	09/13/11 09:40
CRP-110912-13-A	A11I184-04	Soil	09/12/11 09:28	09/13/11 09:40
CRP-110912-13-AD	A11I184-05	Soil	09/12/11 09:28	09/13/11 09:40
CRP-110912-13-B	A11I184-06	Soil	09/12/11 09:42	09/13/11 09:40
CRP-110912-13-C	A11I184-07	Soil	09/12/11 09:55	09/13/11 09:40
CRP-110912-03-A	A11I184-08	Soil	09/12/11 10:17	09/13/11 09:40
CRP-110912-03-B	A11I184-09	Soil	09/12/11 10:35	09/13/11 09:40
CRP-110912-02-A	A11I184-10	Soil	09/12/11 10:46	09/13/11 09:40
CRP-110912-02-B	A11I184-11	Soil	09/12/11 10:58	09/13/11 09:40
CRP-110912-02-C	A11I184-12	Soil	09/12/11 11:07	09/13/11 09:40
CRP-110912-05-A	A11I184-13	Soil	09/12/11 11:36	09/13/11 09:40
CRP-110912-05-B	A11I184-14	Soil	09/12/11 11:46	09/13/11 09:40
CRP-110912-05-C	A11I184-15	Soil	09/12/11 11:55	09/13/11 09:40
CRP-110912-49S	A11I184-16	Soil	09/12/11 13:18	09/13/11 09:40
CRP-110912-48S	A11I184-17	Soil	09/12/11 13:28	09/13/11 09:40
CRP-110912-47S	A11I184-18	Soil	09/12/11 13:44	09/13/11 09:40
CRP-110912-47SD	A11I184-19	Soil	09/12/11 13:44	09/13/11 09:40
CRP-110912-46S	A11I184-20	Soil	09/12/11 13:56	09/13/11 09:40
CRP-110912-45S	A11I184-21	Soil	09/12/11 14:08	09/13/11 09:40
CRP-110912-25-A	A11I184-22	Soil	09/12/11 08:59	09/13/11 09:40
CRP-110912-25-B	A11I184-23	Soil	09/12/11 09:08	09/13/11 09:40

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110912-25-C	A11I184-24	Soil	09/12/11 09:14	09/13/11 09:40
CRP-110912-12-A	A11I184-25	Soil	09/12/11 09:37	09/13/11 09:40
CRP-110912-12-B	A11I184-26	Soil	09/12/11 09:45	09/13/11 09:40
CRP-110912-12-BD	A11I184-27	Soil	09/12/11 09:45	09/13/11 09:40
CRP-110912-12-C	A11I184-28	Soil	09/12/11 09:55	09/13/11 09:40
CRP-110912-07-A	A11I184-29	Soil	09/12/11 10:14	09/13/11 09:40
CRP-110912-07-B	A11I184-30	Soil	09/12/11 10:20	09/13/11 09:40
CRP-110912-07-C	A11I184-31	Soil	09/12/11 10:30	09/13/11 09:40
CRP-110912-06-A	A11I184-32	Soil	09/12/11 10:49	09/13/11 09:40
CRP-110912-06-B	A11I184-33	Soil	09/12/11 10:59	09/13/11 09:40
CRP-110912-06-BD	A11I184-34	Soil	09/12/11 10:59	09/13/11 09:40
CRP-110912-06-C	A11I184-35	Soil	09/12/11 11:09	09/13/11 09:40
CRP-110912-04-A	A11I184-36	Soil	09/12/11 11:40	09/13/11 09:40
CRP-110912-04-B	A11I184-37	Soil	09/12/11 11:46	09/13/11 09:40
CRP-110912-26-A	A11I184-38	Soil	09/12/11 13:19	09/13/11 09:40
CRP-110912-26-B	A11I184-39	Soil	09/12/11 13:29	09/13/11 09:40
CRP-110912-26-C	A11I184-40	Soil	09/12/11 13:33	09/13/11 09:40

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110907-38-A (A11I094-01)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.30	mg/kg dry	10	09/14/11 18:07	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**16.9**	---	2.30	"	"	"	"	
Lead	**48.9**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110907-38-B (A11I094-02)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.30	mg/kg dry	10	09/20/11 12:33	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**42.0**	---	2.30	"	"	"	"	
Lead	**16.4**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110907-38-C (A11I094-03)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/20/11 12:36	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**33.2**	---	2.36	"	"	"	"	
Lead	**7.52**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110907-39-A (A11I094-04)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/14/11 18:10	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**41.0**	---	2.36	"	"	"	"	
Lead	**10.9**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110907-39-B (A11I094-05)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/20/11 12:39	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**54.6**	---	2.53	"	"	"	"	
Lead	**8.89**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
CRP-110907-39-C (A11I094-06)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.65	mg/kg dry	10	09/20/11 12:58	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**50.1**	---	2.65	"	"	"	"	
Lead	**6.76**	---	1.32	"	"	"	"	

DRAFT REPORT

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110907-39-C (A11I094-06)			**Matrix: Soil**		**Batch: 1109279**			
Silver	ND	---	1.32	mg/kg dry	10	"	EPA 6020	
CRP-110907-43-A (A11I094-07)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.50	mg/kg dry	10	09/14/11 18:19	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**19.8**	---	2.50	"	"	"	"	
Lead	**6.90**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110907-43-AD (A11I094-08)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/14/11 18:31	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**44.1**	---	2.53	"	"	"	"	
Lead	**6.81**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
CRP-110907-43-B (A11I094-09)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/20/11 13:06	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**28.5**	---	2.63	"	"	"	"	
Lead	**6.82**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
CRP-110907-43-C (A11I094-10)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/20/11 13:09	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**30.9**	---	2.56	"	"	"	"	
Lead	**6.49**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
CRP-110907-44-A (A11I094-11)			**Matrix: Soil**		**Batch: 1109199**			
Arsenic	ND	---	2.35	mg/kg dry	10	09/14/11 18:39	EPA 6020	
Cadmium	ND	---	1.17	"	"	"	"	
Chromium	**38.9**	---	2.35	"	"	"	"	
Lead	**6.55**	---	1.17	"	"	"	"	
Silver	ND	---	1.17	"	"	"	"	
CRP-110907-44-B (A11I094-12)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/20/11 13:12	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110907-44-B (A11I094-12)			**Matrix: Soil**		**Batch: 1109279**			
Chromium	**54.7**	---	2.44	mg/kg dry	10	"	EPA 6020	
Lead	**6.81**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
CRP-110907-44-C (A11I094-13)			**Matrix: Soil**		**Batch: 1109259**			
Arsenic	ND	---	2.49	mg/kg dry	10	09/19/11 12:45	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**54.5**	---	2.49	"	"	"	"	
Lead	**6.79**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110908-14-A (A11I167-01)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.84	mg/kg dry	10	09/14/11 21:29	EPA 6020	
Cadmium	ND	---	1.42	"	"	"	"	
Chromium	**45.5**	---	2.84	"	"	"	"	
Lead	**19.0**	---	1.42	"	"	"	"	
Silver	ND	---	1.42	"	"	"	"	
CRP-110908-14-B (A11I167-02)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.57	mg/kg dry	10	09/20/11 13:15	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**51.3**	---	2.57	"	"	"	"	
Lead	**8.76**	---	1.29	"	"	"	"	
Silver	ND	---	1.29	"	"	"	"	
CRP-110908-14-BD (A11I167-03)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.64	mg/kg dry	10	09/20/11 13:27	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**48.0**	---	2.64	"	"	"	"	
Lead	**8.03**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
CRP-110908-14-C (A11I167-04)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.62	mg/kg dry	10	09/20/11 13:30	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**45.0**	---	2.62	"	"	"	"	
Lead	**7.77**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
CRP-110908-21-A (A11I167-05)			**Matrix: Soil**		**Batch: 1109202**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-21-A (A11I167-05)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/14/11 21:32	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**35.4**	---	2.63	"	"	"	"	
Lead	**14.7**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
CRP-110908-21-B (A11I167-06)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.95	mg/kg dry	10	09/20/11 13:33	EPA 6020	
Cadmium	ND	---	1.47	"	"	"	"	
Chromium	**36.3**	---	2.95	"	"	"	"	
Lead	**8.09**	---	1.47	"	"	"	"	
Silver	ND	---	1.47	"	"	"	"	
CRP-110908-21-C (A11I167-07)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/20/11 13:36	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**39.9**	---	2.53	"	"	"	"	
Lead	**9.40**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
CRP-110908-27-A (A11I167-08)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.64	mg/kg dry	10	09/14/11 21:35	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**33.3**	---	2.64	"	"	"	"	
Lead	**13.6**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
CRP-110908-27-B (A11I167-09)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/20/11 13:39	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**43.3**	---	2.60	"	"	"	"	
Lead	**21.3**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
CRP-110908-27-C (A11I167-10)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.51	mg/kg dry	10	09/20/11 13:42	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**31.1**	---	2.51	"	"	"	"	
Lead	**13.7**	---	1.26	"	"	"	"	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-27-C (A11I167-10)			**Matrix: Soil**		**Batch: 1109279**			
Silver	ND	---	1.26	mg/kg dry	10	"	EPA 6020	
CRP-110908-28-A (A11I167-11)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.55	mg/kg dry	10	09/14/11 21:38	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**48.3**	---	2.55	"	"	"	"	
Lead	**14.4**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
CRP-110908-28-B (A11I167-12)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.41	mg/kg dry	10	09/20/11 13:45	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**34.1**	---	2.41	"	"	"	"	
Lead	**5.98**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
CRP-110908-28-C (A11I167-13)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.75	mg/kg dry	10	09/20/11 13:48	EPA 6020	
Cadmium	ND	---	1.38	"	"	"	"	
Chromium	**42.8**	---	2.75	"	"	"	"	
Lead	**11.2**	---	1.38	"	"	"	"	
Silver	ND	---	1.38	"	"	"	"	
CRP-110908-42-A (A11I167-14)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.22	mg/kg dry	10	09/14/11 21:41	EPA 6020	
Cadmium	ND	---	1.11	"	"	"	"	
Chromium	**14.4**	---	2.22	"	"	"	"	
Lead	**42.1**	---	1.11	"	"	"	"	
Silver	ND	---	1.11	"	"	"	"	
CRP-110908-36-A (A11I167-15)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.54	mg/kg dry	10	09/14/11 21:44	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**30.7**	---	2.54	"	"	"	"	
Lead	**48.9**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
CRP-110908-36-B (A11I167-16)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.21	mg/kg dry	10	09/20/11 13:51	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-36-B (A11I167-16)			**Matrix: Soil**		**Batch: 1109279**			
Chromium	**28.2**	---	2.21	mg/kg dry	10	"	EPA 6020	
Lead	**31.2**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110908-36-C (A11I167-17)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.32	mg/kg dry	10	09/20/11 14:02	EPA 6020	
Cadmium	ND	---	1.16	"	"	"	"	
Chromium	**34.5**	---	2.32	"	"	"	"	
Lead	**26.7**	---	1.16	"	"	"	"	
Silver	ND	---	1.16	"	"	"	"	
CRP-110908-37-A (A11I167-18)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	ND	---	2.67	mg/kg dry	10	09/14/11 21:47	EPA 6020	
Cadmium	ND	---	1.34	"	"	"	"	
Chromium	**14.9**	---	2.67	"	"	"	"	
Lead	**50.0**	---	1.34	"	"	"	"	
Silver	ND	---	1.34	"	"	"	"	
CRP-110908-37-B (A11I167-19)			**Matrix: Soil**		**Batch: 1109279**			
Arsenic	ND	---	2.33	mg/kg dry	10	09/20/11 14:05	EPA 6020	
Cadmium	ND	---	1.16	"	"	"	"	
Chromium	**10.9**	---	2.33	"	"	"	"	
Lead	**7.68**	---	1.16	"	"	"	"	
Silver	ND	---	1.16	"	"	"	"	
CRP-110908-37-C (A11I167-20)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.25	mg/kg dry	10	09/19/11 19:40	EPA 6020	
Cadmium	ND	---	1.12	"	"	"	"	
Chromium	**21.0**	---	2.25	"	"	"	"	
Lead	**15.7**	---	1.12	"	"	"	"	
Silver	ND	---	1.12	"	"	"	"	
CRP-110908-31-A (A11I167-21)			**Matrix: Soil**		**Batch: 1109202**			
Arsenic	**23.3**	---	2.00	mg/kg dry	10	09/14/11 21:50	EPA 6020	
Cadmium	ND	---	1.00	"	"	"	"	
Chromium	**54.5**	---	2.00	"	"	"	"	
Lead	**571**	---	1.00	"	"	"	"	
Silver	ND	---	1.00	"	"	"	"	
CRP-110908-31-B (A11I167-22)			**Matrix: Soil**		**Batch: 1109301**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-31-B (A11I167-22)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.42	mg/kg dry	10	09/19/11 19:43	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**17.3**	---	2.42	"	"	"	"	
Lead	**19.5**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
CRP-110908-31-BD (A11I167-23)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.37	mg/kg dry	10	09/19/11 19:46	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**19.4**	---	2.37	"	"	"	"	
Lead	**15.9**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110908-31-C (A11I167-24)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	**2.45**	---	2.25	mg/kg dry	10	09/19/11 19:49	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**21.7**	---	2.25	"	"	"	"	
Lead	**21.4**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110908-20-A (A11I167-25)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/16/11 11:13	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**19.4**	---	2.36	"	"	"	"	
Lead	**26.3**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110908-20-B (A11I167-26)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.38	mg/kg dry	10	09/19/11 19:58	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**10.3**	---	2.38	"	"	"	"	
Lead	**13.3**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110908-20-C (A11I167-27)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.19	mg/kg dry	10	09/19/11 20:01	EPA 6020	
Cadmium	ND	---	1.09	"	"	"	"	
Chromium	**17.3**	---	2.19	"	"	"	"	
Lead	**17.3**	---	1.09	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-20-C (A11I167-27)			**Matrix: Soil**		**Batch: 1109301**			
Silver	ND	---	1.09	mg/kg dry	10	"	EPA 6020	
CRP-110908-15-A (A11I167-28)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/16/11 11:16	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**58.8**	---	2.44	"	"	"	"	
Lead	**20.5**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
CRP-110908-15-B (A11I167-29)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/19/11 20:04	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**58.9**	---	2.53	"	"	"	"	
Lead	**31.0**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
CRP-110908-15-C (A11I167-30)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.43	mg/kg dry	10	09/19/11 20:15	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**60.2**	---	2.43	"	"	"	"	
Lead	**17.0**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
CRP-110908-16-A (A11I167-31)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.73	mg/kg dry	10	09/16/11 11:25	EPA 6020	
Cadmium	ND	---	1.37	"	"	"	"	
Chromium	**67.1**	---	2.73	"	"	"	"	
Lead	**10.8**	---	1.37	"	"	"	"	
Silver	ND	---	1.37	"	"	"	"	
CRP-110908-16-B (A11I167-32)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/19/11 20:18	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**67.2**	---	2.44	"	"	"	"	
Lead	**9.71**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
CRP-110908-16-C (A11I167-33)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.49	mg/kg dry	10	09/19/11 20:21	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-16-C (A11I167-33)			**Matrix: Soil**		**Batch: 1109301**			
Chromium	**64.1**	---	2.49	mg/kg dry	10	"	EPA 6020	
Lead	**6.88**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
CRP-110908-23-A (A11I167-34)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.66	mg/kg dry	10	09/16/11 11:27	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**61.9**	---	2.66	"	"	"	"	
Lead	**8.68**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	
CRP-110908-23-B (A11I167-35)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/19/11 20:24	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**55.0**	---	2.53	"	"	"	"	
Lead	**6.35**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
CRP-110908-23-C (A11I167-36)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.66	mg/kg dry	10	09/19/11 20:27	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**67.9**	---	2.66	"	"	"	"	
Lead	**7.50**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	
CRP-110908-22-A (A11I167-37)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.75	mg/kg dry	10	09/16/11 11:39	EPA 6020	
Cadmium	ND	---	1.37	"	"	"	"	
Chromium	**59.6**	---	2.75	"	"	"	"	
Lead	**58.5**	---	1.37	"	"	"	"	
Silver	ND	---	1.37	"	"	"	"	
CRP-110908-22-B (A11I167-38)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.75	mg/kg dry	10	09/19/11 20:30	EPA 6020	
Cadmium	ND	---	1.37	"	"	"	"	
Chromium	**58.6**	---	2.75	"	"	"	"	
Lead	**22.9**	---	1.37	"	"	"	"	
Silver	ND	---	1.37	"	"	"	"	
CRP-110908-22-C (A11I167-39)			**Matrix: Soil**		**Batch: 1109301**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-22-C (A11I167-39)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/19/11 20:33	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**49.4**	---	2.56	"	"	"	"	
Lead	**8.68**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
CRP-110908-41-A (A11I167-40)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.55	mg/kg dry	10	09/16/11 11:42	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**60.3**	---	2.55	"	"	"	"	
Lead	**9.45**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
CRP-110908-41-B (A11I167-41)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/19/11 20:36	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**55.4**	---	2.40	"	"	"	"	
Lead	**6.13**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
CRP-110908-41-C (A11I167-42)			**Matrix: Soil**		**Batch: 1109301**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/19/11 20:39	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**58.1**	---	2.36	"	"	"	"	
Lead	**6.76**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110908-35-A (A11I167-43)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.55	mg/kg dry	10	09/16/11 11:45	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**54.4**	---	2.55	"	"	"	"	
Lead	**13.9**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
CRP-110908-35-B (A11I167-44)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/20/11 14:17	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**38.0**	---	2.40	"	"	"	"	
Lead	**6.27**	---	1.20	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-35-B (A11I167-44)			**Matrix: Soil**		**Batch: 1109307**			
Silver	ND	---	1.20	mg/kg dry	10	"	EPA 6020	
CRP-110908-35-C (A11I167-45)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/20/11 14:20	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**41.5**	---	2.44	"	"	"	"	
Lead	**5.76**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
CRP-110908-40-A (A11I167-46)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.50	mg/kg dry	10	09/16/11 11:48	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**49.6**	---	2.50	"	"	"	"	
Lead	**12.1**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110908-40-AD (A11I167-47)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.63	mg/kg dry	10	09/16/11 11:51	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**53.7**	---	2.63	"	"	"	"	
Lead	**14.9**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
CRP-110908-40-B (A11I167-48)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.61	mg/kg dry	10	09/20/11 14:23	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**54.4**	---	2.61	"	"	"	"	
Lead	**7.60**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
CRP-110908-40-C (A11I167-49)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.67	mg/kg dry	10	09/20/11 14:26	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**56.6**	---	2.67	"	"	"	"	
Lead	**7.03**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	
CRP-110908-29-A (A11I167-50)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**7.57**	---	2.28	mg/kg dry	10	09/16/11 11:54	EPA 6020	
Cadmium	ND	---	1.14	"	"	"	"	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-29-A (A11I167-50)			**Matrix: Soil**		**Batch: 1109218**			
Chromium	**64.7**	---	2.28	mg/kg dry	10	"	EPA 6020	
Lead	**72.9**	---	1.14	"	"	"	"	
Silver	ND	---	1.14	"	"	"	"	
CRP-110908-29-B (A11I167-51)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/20/11 14:43	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**55.0**	---	2.36	"	"	"	"	
Lead	**11.9**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110908-29-C (A11I167-52)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.64	mg/kg dry	10	09/20/11 14:46	EPA 6020	
Cadmium	ND	---	1.32	"	"	"	"	
Chromium	**55.6**	---	2.64	"	"	"	"	
Lead	**8.23**	---	1.32	"	"	"	"	
Silver	ND	---	1.32	"	"	"	"	
CRP-110908-30-A (A11I167-53)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**19.3**	---	2.18	mg/kg dry	10	09/16/11 11:57	EPA 6020	
Cadmium	ND	---	1.09	"	"	"	"	
Chromium	**48.3**	---	2.18	"	"	"	"	
Lead	**405**	---	1.09	"	"	"	"	
Silver	ND	---	1.09	"	"	"	"	
CRP-110908-30-B (A11I167-54)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	**8.56**	---	2.35	mg/kg dry	10	09/20/11 14:49	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**47.8**	---	2.35	"	"	"	"	
Lead	**312**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110908-30-BD (A11I167-55)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	**8.67**	---	2.35	mg/kg dry	10	09/20/11 14:52	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**49.9**	---	2.35	"	"	"	"	
Lead	**447**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110908-30-C (A11I167-56)			**Matrix: Soil**		**Batch: 1109307**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-30-C (A11I167-56)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	**6.74**	---	2.65	mg/kg dry	10	09/20/11 15:02	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**46.1**	---	2.65	"	"	"	"	
Lead	**214**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	
CRP-110909-RW01-A (A11I176-01)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.30	mg/kg dry	10	09/16/11 12:00	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**35.3**	---	2.30	"	"	"	"	
Lead	**10.9**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110909-RW01-B (A11I176-02)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.10	mg/kg dry	10	09/20/11 15:33	EPA 6020	
Cadmium	ND	---	1.05	"	"	"	"	
Chromium	**26.6**	---	2.10	"	"	"	"	
Lead	**6.10**	---	1.05	"	"	"	"	
Silver	ND	---	1.05	"	"	"	"	
CRP-110909-RW01-C (A11I176-03)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/20/11 15:36	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**26.0**	---	2.40	"	"	"	"	
Lead	**6.21**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
CRP-110909-RW02-A (A11I176-04)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.21	mg/kg dry	10	09/16/11 12:03	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**37.1**	---	2.21	"	"	"	"	
Lead	**28.3**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110909-RW02-B (A11I176-05)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.23	mg/kg dry	10	09/20/11 15:28	EPA 6020	
Cadmium	ND	---	1.12	"	"	"	"	
Chromium	**34.5**	---	2.23	"	"	"	"	
Lead	**7.19**	---	1.12	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-RW02-B (A11I176-05)			**Matrix: Soil**		**Batch: 1109307**			
Silver	ND	---	1.12	mg/kg dry	10	"	EPA 6020	
CRP-110909-RW02-C (A11I176-06)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.20	mg/kg dry	10	09/20/11 15:40	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**33.5**	---	2.20	"	"	"	"	
Lead	**6.41**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110909-RW03-A (A11I176-07)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**24.6**	---	2.48	mg/kg dry	10	09/16/11 12:15	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**41.7**	---	2.48	"	"	"	"	
Lead	**60.2**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
CRP-110909-RW03-B (A11I176-08)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.51	mg/kg dry	10	09/20/11 15:43	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**25.7**	---	2.51	"	"	"	"	
Lead	**36.4**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
CRP-110909-RW03-BD (A11I176-09)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.27	mg/kg dry	10	09/20/11 15:45	EPA 6020	
Cadmium	ND	---	1.14	"	"	"	"	
Chromium	**25.1**	---	2.27	"	"	"	"	
Lead	**33.5**	---	1.14	"	"	"	"	
Silver	ND	---	1.14	"	"	"	"	
CRP-110909-RW03-C (A11I176-10)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.60	mg/kg dry	10	09/20/11 15:48	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**16.3**	---	2.60	"	"	"	"	
Lead	**11.5**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
CRP-110909-RW04-A (A11I176-11)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.31	mg/kg dry	10	09/16/11 12:18	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-RW04-A (A11I176-11)			**Matrix: Soil**		**Batch: 1109218**			
Chromium	**50.9**	---	2.31	mg/kg dry	10	"	EPA 6020	
Lead	**28.8**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110909-RW04-B (A11I176-12)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/20/11 16:10	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**23.8**	---	2.40	"	"	"	"	
Lead	**10.4**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	09/21/11 09:44	"	
CRP-110909-RW04-C (A11I176-13)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.24	mg/kg dry	10	09/20/11 16:13	EPA 6020	
Cadmium	ND	---	1.12	"	"	"	"	
Chromium	**20.7**	---	2.24	"	"	"	"	
Lead	**8.26**	---	1.12	"	"	"	"	
Silver	ND	---	1.12	"	"	09/21/11 09:47	"	
CRP-110909-32-A (A11I176-14)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**16.9**	---	2.18	mg/kg dry	10	09/16/11 12:21	EPA 6020	
Cadmium	ND	---	1.09	"	"	"	"	
Chromium	**43.6**	---	2.18	"	"	"	"	
Lead	**183**	---	1.09	"	"	"	"	
Silver	ND	---	1.09	"	"	"	"	
CRP-110909-32-B (A11I176-15)			**Matrix: Soil**		**Batch: 1109307**			
Arsenic	ND	---	2.48	mg/kg dry	10	09/20/11 16:18	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**24.9**	---	2.48	"	"	"	"	
Lead	**233**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	09/21/11 09:50	"	
CRP-110909-32-C (A11I176-16)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	**3.21**	---	2.25	mg/kg dry	10	09/21/11 12:13	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**29.4**	---	2.25	"	"	"	"	
Lead	**91.1**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110909-33-A (A11I176-17)			**Matrix: Soil**		**Batch: 1109218**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-33-A (A11I176-17)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**14.3**	---	2.23	mg/kg dry	10	09/16/11 12:24	EPA 6020	
Cadmium	ND	---	1.11	"	"	"	"	
Chromium	**67.5**	---	2.23	"	"	"	"	
Lead	**230**	---	1.11	"	"	"	"	
Silver	ND	---	1.11	"	"	"	"	
CRP-110909-33-B (A11I176-18)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	**10.0**	---	2.35	mg/kg dry	10	09/21/11 12:17	EPA 6020	
Cadmium	ND	---	1.17	"	"	"	"	
Chromium	**66.0**	---	2.35	"	"	"	"	
Lead	**110**	---	1.17	"	"	"	"	
Silver	ND	---	1.17	"	"	"	"	
CRP-110909-33-C (A11I176-19)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/21/11 12:20	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**60.3**	---	2.36	"	"	"	"	
Lead	**89.6**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110909-34-A (A11I176-20)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/16/11 12:36	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**27.8**	---	2.44	"	"	"	"	
Lead	**29.8**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
CRP-110909-34-AD (A11I176-21)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.57	mg/kg dry	10	09/21/11 12:30	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**64.6**	---	2.57	"	"	"	"	
Lead	**70.6**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
CRP-110909-34-B (A11I176-22)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.59	mg/kg dry	10	09/21/11 12:47	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**67.6**	---	2.59	"	"	"	"	
Lead	**12.5**	---	1.29	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-34-B (A11I176-22)			**Matrix: Soil**		**Batch: 1109312**			
Silver	ND	---	1.29	mg/kg dry	10	"	EPA 6020	
CRP-110909-34-C (A11I176-23)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.57	mg/kg dry	10	09/21/11 12:50	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**64.5**	---	2.57	"	"	"	"	
Lead	**15.2**	---	1.29	"	"	"	"	
Silver	ND	---	1.29	"	"	"	"	
CRP-110909-19-A (A11I176-24)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/16/11 12:38	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**26.1**	---	2.40	"	"	"	"	
Lead	**28.2**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
CRP-110909-19-B (A11I176-25)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.35	mg/kg dry	10	09/21/11 12:53	EPA 6020	
Cadmium	ND	---	1.17	"	"	"	"	
Chromium	**39.5**	---	2.35	"	"	"	"	
Lead	**5.82**	---	1.17	"	"	"	"	
Silver	ND	---	1.17	"	"	"	"	
CRP-110909-19-C (A11I176-26)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.19	mg/kg dry	10	09/21/11 12:56	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**40.1**	---	2.19	"	"	"	"	
Lead	**17.1**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110909-18-A (A11I176-27)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.70	mg/kg dry	10	09/16/11 12:52	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**49.6**	---	2.70	"	"	"	"	
Lead	**12.1**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
CRP-110909-18-B (A11I176-28)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.52	mg/kg dry	10	09/21/11 12:59	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-18-B (A11I176-28)			**Matrix: Soil**		**Batch: 1109312**			
Chromium	**56.7**	---	2.52	mg/kg dry	10	"	EPA 6020	
Lead	**6.75**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
CRP-110909-18-C (A11I176-29)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/21/11 13:02	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**60.1**	---	2.53	"	"	"	"	
Lead	**6.37**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
CRP-110909-17-A (A11I176-30)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.58	mg/kg dry	10	09/16/11 12:55	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**53.8**	---	2.58	"	"	"	"	
Lead	**13.9**	---	1.29	"	"	"	"	
Silver	ND	---	1.29	"	"	"	"	
CRP-110909-17-B (A11I176-31)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.47	mg/kg dry	10	09/21/11 13:05	EPA 6020	
Cadmium	ND	---	1.23	"	"	"	"	
Chromium	**60.9**	---	2.47	"	"	"	"	
Lead	**7.69**	---	1.23	"	"	"	"	
Silver	ND	---	1.23	"	"	"	"	
CRP-110909-17-BD (A11I176-32)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.56	mg/kg dry	10	09/21/11 13:08	EPA 6020	
Cadmium	ND	---	1.28	"	"	"	"	
Chromium	**58.4**	---	2.56	"	"	"	"	
Lead	**10.6**	---	1.28	"	"	"	"	
Silver	ND	---	1.28	"	"	"	"	
CRP-110909-17-C (A11I176-33)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.59	mg/kg dry	10	09/21/11 13:20	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**59.6**	---	2.59	"	"	"	"	
Lead	**6.62**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
CRP-110909-11-A (A11I176-34)			**Matrix: Soil**		**Batch: 1109233**			

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-11-A (A11I176-34)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.67	mg/kg dry	10	09/16/11 13:04	EPA 6020	
Cadmium	ND	---	1.34	"	"	"	"	
Chromium	**35.7**	---	2.67	"	"	"	"	
Lead	**26.9**	---	1.34	"	"	"	"	
Silver	ND	---	1.34	"	"	"	"	
CRP-110909-11-B (A11I176-35)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.27	mg/kg dry	10	09/21/11 13:23	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**55.0**	---	2.27	"	"	"	"	
Lead	**20.7**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110909-11-C (A11I176-36)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.47	mg/kg dry	10	09/21/11 13:26	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**61.7**	---	2.47	"	"	"	"	
Lead	**8.49**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
CRP-110909-01-A (A11I176-37)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.38	mg/kg dry	10	09/16/11 13:07	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**46.7**	---	2.38	"	"	"	"	
Lead	**23.4**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110909-01-B (A11I176-38)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.38	mg/kg dry	10	09/21/11 13:29	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**59.0**	---	2.38	"	"	"	"	
Lead	**10.3**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110909-01-C (A11I176-39)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	ND	---	2.45	mg/kg dry	10	09/21/11 13:32	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**58.4**	---	2.45	"	"	"	"	
Lead	**8.60**	---	1.22	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-01-C (A11I176-39)			**Matrix: Soil**		**Batch: 1109312**			
Silver	ND	---	1.22	mg/kg dry	10	"	EPA 6020	
CRP-110909-08-A (A11I176-40)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**17.1**	---	2.03	mg/kg dry	10	09/16/11 13:10	EPA 6020	
Cadmium	ND	---	1.02	"	"	"	"	
Chromium	**48.1**	---	2.03	"	"	"	"	
Lead	**488**	---	1.02	"	"	"	"	
Silver	ND	---	1.02	"	"	"	"	
CRP-110909-08-B (A11I176-41)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	**7.55**	---	2.39	mg/kg dry	10	09/21/11 13:35	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**49.5**	---	2.39	"	"	"	"	
Lead	**408**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110909-09-A (A11I176-42)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**19.5**	---	2.24	mg/kg dry	10	09/16/11 13:13	EPA 6020	
Cadmium	ND	---	1.12	"	"	"	"	
Chromium	**57.3**	---	2.24	"	"	"	"	
Lead	**428**	---	1.12	"	"	"	"	
Silver	ND	---	1.12	"	"	"	"	
CRP-110909-09-B (A11I176-43)			**Matrix: Soil**		**Batch: 1109312**			
Arsenic	**7.56**	---	2.51	mg/kg dry	10	09/21/11 13:38	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**65.3**	---	2.51	"	"	"	"	
Lead	**124**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110909-09-BD (A11I176-44)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	**5.77**	---	2.50	mg/kg dry	10	09/21/11 14:17	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**56.5**	---	2.50	"	"	"	"	
Lead	**181**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110909-09-C (A11I176-45)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	**5.75**	---	2.49	mg/kg dry	10	09/21/11 14:20	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-09-C (A11I176-45)			**Matrix: Soil**		**Batch: 1109320**			
Chromium	**61.2**	---	2.49	mg/kg dry	10	"	EPA 6020	
Lead	**92.6**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110909-10-A (A11I176-46)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**8.96**	---	2.65	mg/kg dry	10	09/16/11 14:48	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**55.6**	---	2.65	"	"	"	"	
Lead	**104**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	
CRP-110909-10-B (A11I176-47)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	**4.77**	---	2.43	mg/kg dry	10	09/21/11 14:22	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**52.4**	---	2.43	"	"	"	"	
Lead	**50.3**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
CRP-110909-10-C (A11I176-48)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.53	mg/kg dry	10	09/21/11 14:25	EPA 6020	
Cadmium	ND	---	1.26	"	"	"	"	
Chromium	**55.1**	---	2.53	"	"	"	"	
Lead	**15.7**	---	1.26	"	"	"	"	
Silver	ND	---	1.26	"	"	"	"	
CRP-110912-24-A (A11I184-01)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.48	mg/kg dry	10	09/16/11 13:28	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**55.4**	---	2.48	"	"	"	"	
Lead	**15.6**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
CRP-110912-24-B (A11I184-02)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.54	mg/kg dry	10	09/21/11 14:52	EPA 6020	
Cadmium	ND	---	1.27	"	"	"	"	
Chromium	**50.6**	---	2.54	"	"	"	"	
Lead	**10.2**	---	1.27	"	"	"	"	
Silver	ND	---	1.27	"	"	"	"	
CRP-110912-24-C (A11I184-03)			**Matrix: Soil**		**Batch: 1109320**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-24-C (A11I184-03)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.61	mg/kg dry	10	09/21/11 14:55	EPA 6020	
Cadmium	ND	---	1.30	"	"	"	"	
Chromium	**47.7**	---	2.61	"	"	"	"	
Lead	**8.73**	---	1.30	"	"	"	"	
Silver	ND	---	1.30	"	"	"	"	
CRP-110912-13-A (A11I184-04)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**9.91**	---	2.36	mg/kg dry	10	09/16/11 13:31	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**32.4**	---	2.36	"	"	"	"	
Lead	**225**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110912-13-AD (A11I184-05)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**8.65**	---	2.49	mg/kg dry	10	09/16/11 13:33	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**29.4**	---	2.49	"	"	"	"	
Lead	**275**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110912-13-B (A11I184-06)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.39	mg/kg dry	10	09/21/11 14:58	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**20.0**	---	2.39	"	"	"	"	
Lead	**107**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
CRP-110912-13-C (A11I184-07)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.26	mg/kg dry	10	09/21/11 15:01	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**18.1**	---	2.26	"	"	"	"	
Lead	**41.3**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110912-03-A (A11I184-08)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**3.99**	---	2.43	mg/kg dry	10	09/16/11 13:37	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**24.4**	---	2.43	"	"	"	"	
Lead	**26.0**	---	1.21	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-03-A (A11I184-08)			**Matrix: Soil**		**Batch: 1109233**			
Silver	ND	---	1.21	mg/kg dry	10	"	EPA 6020	
CRP-110912-03-B (A11I184-09)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	**3.29**	---	2.32	mg/kg dry	10	09/21/11 15:18	EPA 6020	
Cadmium	ND	---	1.16	"	"	"	"	
Chromium	**26.5**	---	2.32	"	"	"	"	
Lead	**24.0**	---	1.16	"	"	"	"	
Silver	ND	---	1.16	"	"	"	"	
CRP-110912-02-A (A11I184-10)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**7.91**	---	2.39	mg/kg dry	10	09/16/11 13:40	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**50.1**	---	2.39	"	"	"	"	
Lead	**171**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110912-02-B (A11I184-11)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.42	mg/kg dry	10	09/21/11 15:21	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**44.5**	---	2.42	"	"	"	"	
Lead	**46.7**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
CRP-110912-02-C (A11I184-12)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.61	mg/kg dry	10	09/21/11 15:24	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**44.6**	---	2.61	"	"	"	"	
Lead	**53.5**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
CRP-110912-05-A (A11I184-13)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**23.3**	---	2.29	mg/kg dry	10	09/16/11 13:43	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**57.7**	---	2.29	"	"	"	"	
Lead	**221**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110912-05-B (A11I184-14)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.46	mg/kg dry	10	09/21/11 15:27	EPA 6020	
Cadmium	ND	---	1.23	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-05-B (A11I184-14)			**Matrix: Soil**		**Batch: 1109320**			
Chromium	**46.6**	---	2.46	mg/kg dry	10	"	EPA 6020	
Lead	**131**	---	1.23	"	"	"	"	
Silver	ND	---	1.23	"	"	"	"	
CRP-110912-05-C (A11I184-15)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.48	mg/kg dry	10	09/21/11 15:30	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**35.0**	---	2.48	"	"	"	"	
Lead	**56.8**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
CRP-110912-49S (A11I184-16)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.62	mg/kg dry	10	09/16/11 13:46	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**11.6**	---	2.62	"	"	"	"	
Lead	**4.24**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
CRP-110912-48S (A11I184-17)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.87	mg/kg dry	10	09/16/11 13:49	EPA 6020	
Cadmium	ND	---	1.44	"	"	"	"	
Chromium	**10.7**	---	2.87	"	"	"	"	
Lead	**2.63**	---	1.44	"	"	"	"	
Silver	ND	---	1.44	"	"	"	"	
CRP-110912-47S (A11I184-18)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.83	mg/kg dry	10	09/16/11 13:52	EPA 6020	
Cadmium	ND	---	1.41	"	"	"	"	
Chromium	**8.46**	---	2.83	"	"	"	"	
Lead	**3.31**	---	1.41	"	"	"	"	
Silver	ND	---	1.41	"	"	"	"	
CRP-110912-47SD (A11I184-19)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.34	mg/kg dry	10	09/16/11 14:04	EPA 6020	
Cadmium	ND	---	1.17	"	"	"	"	
Chromium	**7.99**	---	2.34	"	"	"	"	
Lead	**2.49**	---	1.17	"	"	"	"	
Silver	ND	---	1.17	"	"	"	"	
CRP-110912-46S (A11I184-20)			**Matrix: Soil**		**Batch: 1109238**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-46S (A11I184-20)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.11	mg/kg dry	10	09/19/11 16:40	EPA 6020	
Cadmium	ND	---	1.05	"	"	"	"	
Chromium	**7.65**	---	2.11	"	"	"	"	
Lead	**2.47**	---	1.05	"	"	"	"	
Silver	ND	---	1.05	"	"	"	"	
CRP-110912-45S (A11I184-21)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.31	mg/kg dry	10	09/19/11 16:43	EPA 6020	
Cadmium	ND	---	1.16	"	"	"	"	
Chromium	**5.41**	---	2.31	"	"	"	"	
Lead	**2.24**	---	1.16	"	"	"	"	
Silver	ND	---	1.16	"	"	"	"	
CRP-110912-25-A (A11I184-22)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.27	mg/kg dry	10	09/19/11 16:46	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**18.5**	---	2.27	"	"	"	"	
Lead	**38.8**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110912-25-B (A11I184-23)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.19	mg/kg dry	10	09/21/11 15:33	EPA 6020	
Cadmium	ND	---	1.09	"	"	"	"	
Chromium	**18.7**	---	2.19	"	"	"	"	
Lead	**11.8**	---	1.09	"	"	"	"	
Silver	ND	---	1.09	"	"	"	"	
CRP-110912-25-C (A11I184-24)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.34	mg/kg dry	10	09/21/11 15:36	EPA 6020	
Cadmium	ND	---	1.17	"	"	"	"	
Chromium	**14.8**	---	2.34	"	"	"	"	
Lead	**4.77**	---	1.17	"	"	"	"	
Silver	ND	---	1.17	"	"	"	"	
CRP-110912-12-A (A11I184-25)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	**5.42**	---	2.19	mg/kg dry	10	09/19/11 16:49	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**21.6**	---	2.19	"	"	"	"	
Lead	**422**	---	1.10	"	"	"	"	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-12-A (A11I184-25)			**Matrix: Soil**		**Batch: 1109238**			
Silver	ND	---	1.10	mg/kg dry	10	"	EPA 6020	
CRP-110912-12-B (A11I184-26)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	**2.80**	---	2.27	mg/kg dry	10	09/21/11 15:39	EPA 6020	
Cadmium	ND	---	1.14	"	"	"	"	
Chromium	**18.0**	---	2.27	"	"	"	"	
Lead	**110**	---	1.14	"	"	"	"	
Silver	ND	---	1.14	"	"	"	"	
CRP-110912-12-BD (A11I184-27)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/21/11 15:43	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**12.6**	---	2.40	"	"	"	"	
Lead	**112**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
CRP-110912-12-C (A11I184-28)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/21/11 15:46	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**15.9**	---	2.40	"	"	"	"	
Lead	**58.0**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
CRP-110912-07-A (A11I184-29)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	**3.41**	---	2.26	mg/kg dry	10	09/19/11 16:52	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**18.9**	---	2.26	"	"	"	"	
Lead	**175**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110912-07-B (A11I184-30)			**Matrix: Soil**		**Batch: 1109320**			
Arsenic	ND	---	2.17	mg/kg dry	10	09/22/11 10:29	EPA 6020	
Cadmium	ND	---	1.08	"	"	"	"	
Chromium	**12.3**	---	2.17	"	"	"	"	
Lead	**92.3**	---	1.08	"	"	"	"	
Silver	ND	---	1.08	"	"	"	"	
CRP-110912-07-C (A11I184-31)			**Matrix: Soil**		**Batch: 1109326**			
Arsenic	ND	---	2.21	mg/kg dry	10	09/22/11 11:44	EPA 6020	
Cadmium	ND	---	1.11	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-07-C (A11I184-31)			**Matrix: Soil**		**Batch: 1109326**			
Chromium	**22.1**	---	2.21	mg/kg dry	10	"	EPA 6020	
Lead	**82.2**	---	1.11	"	"	"	"	
Silver	ND	---	1.11	"	"	"	"	
CRP-110912-06-A (A11I184-32)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	**14.9**	---	2.09	mg/kg dry	10	09/19/11 16:55	EPA 6020	
Cadmium	ND	---	1.05	"	"	"	"	
Chromium	**45.4**	---	2.09	"	"	"	"	
Lead	**520**	---	1.05	"	"	"	"	
Silver	ND	---	1.05	"	"	"	"	
CRP-110912-06-B (A11I184-33)			**Matrix: Soil**		**Batch: 1109326**			
Arsenic	ND	---	2.51	mg/kg dry	10	09/22/11 11:47	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**46.7**	---	2.51	"	"	"	"	
Lead	**125**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110912-06-BD (A11I184-34)			**Matrix: Soil**		**Batch: 1109326**			
Arsenic	ND	---	2.38	mg/kg dry	10	09/22/11 11:50	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**54.5**	---	2.38	"	"	"	"	
Lead	**135**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110912-06-C (A11I184-35)			**Matrix: Soil**		**Batch: 1109326**			
Arsenic	ND	---	2.38	mg/kg dry	10	09/22/11 12:02	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**53.5**	---	2.38	"	"	"	"	
Lead	**51.6**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110912-04-A (A11I184-36)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.20	mg/kg dry	10	09/19/11 16:58	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**11.8**	---	2.20	"	"	"	"	
Lead	**32.3**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110912-04-B (A11I184-37)			**Matrix: Soil**		**Batch: 1109326**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-04-B (A11I184-37)			**Matrix: Soil**		**Batch: 1109326**			
Arsenic	ND	---	2.30	mg/kg dry	10	09/22/11 12:05	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**15.4**	---	2.30	"	"	"	"	
Lead	**8.53**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110912-26-A (A11I184-38)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.41	mg/kg dry	10	09/19/11 17:01	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**18.8**	---	2.41	"	"	"	"	
Lead	**8.96**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
CRP-110912-26-B (A11I184-39)			**Matrix: Soil**		**Batch: 1109326**			
Arsenic	ND	---	2.39	mg/kg dry	10	09/22/11 12:08	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**18.5**	---	2.39	"	"	"	"	
Lead	**4.72**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110912-26-C (A11I184-40)			**Matrix: Soil**		**Batch: 1109326**			
Arsenic	ND	---	2.36	mg/kg dry	10	09/22/11 12:11	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**20.3**	---	2.36	"	"	"	"	
Lead	**4.46**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110907-38-A (A11I094-01)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**88.0**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
CRP-110907-38-B (A11I094-02)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**83.1**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110907-38-C (A11I094-03)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**84.1**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110907-39-A (A11I094-04)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**82.0**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
CRP-110907-39-B (A11I094-05)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**80.0**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110907-39-C (A11I094-06)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**79.2**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110907-43-A (A11I094-07)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
CRP-110907-43-AD (A11I094-08)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**76.8**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
CRP-110907-43-B (A11I094-09)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**78.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110907-43-C (A11I094-10)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**79.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110907-44-A (A11I094-11)			**Matrix: Soil**		**Batch: 1109113**			
% Solids	**83.4**	---	1.00	% by Weight	1	09/09/11 11:12	Apex SOP	
CRP-110907-44-B (A11I094-12)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110907-44-C (A11I094-13)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-14-A (A11I167-01)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**79.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-14-B (A11I167-02)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**77.0**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-14-BD (A11I167-03)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**77.2**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-14-C (A11I167-04)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**74.0**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-21-A (A11I167-05)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**82.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-21-B (A11I167-06)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**72.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-21-C (A11I167-07)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**82.6**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-27-A (A11I167-08)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**87.0**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-27-B (A11I167-09)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**78.0**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-27-C (A11I167-10)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.4**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-28-A (A11I167-11)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**77.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-28-B (A11I167-12)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-28-C (A11I167-13)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**75.2**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-42-A (A11I167-14)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-36-A (A11I167-15)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**87.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-36-B (A11I167-16)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**87.7**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-36-C (A11I167-17)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**82.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-37-A (A11I167-18)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**84.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-37-B (A11I167-19)			**Matrix: Soil**		**Batch: 1109250**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-37-B (A11I167-19)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**90.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-37-C (A11I167-20)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**87.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-31-A (A11I167-21)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**97.1**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-31-B (A11I167-22)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**86.2**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-31-BD (A11I167-23)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**85.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-31-C (A11I167-24)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**84.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-20-A (A11I167-25)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**94.0**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-20-B (A11I167-26)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**92.0**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-20-C (A11I167-27)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**90.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-15-A (A11I167-28)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**81.7**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-15-B (A11I167-29)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**80.4**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-15-C (A11I167-30)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**79.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-16-A (A11I167-31)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**76.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-16-B (A11I167-32)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**78.4**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-16-C (A11I167-33)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**77.3**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-23-A (A11I167-34)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**77.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-23-B (A11I167-35)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**74.4**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-23-C (A11I167-36)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**75.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-22-A (A11I167-37)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**74.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-22-B (A11I167-38)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**78.3**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-22-C (A11I167-39)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**76.1**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-41-A (A11I167-40)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**80.7**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-41-B (A11I167-41)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**82.9**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-41-C (A11I167-42)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-35-A (A11I167-43)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**81.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-35-B (A11I167-44)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**80.2**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-35-C (A11I167-45)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**82.0**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-40-A (A11I167-46)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**80.4**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-40-AD (A11I167-47)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**79.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-40-B (A11I167-48)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**80.8**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-40-C (A11I167-49)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**79.4**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-29-A (A11I167-50)			**Matrix: Soil**		**Batch: 1109227**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110908-29-A (A11I167-50)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**85.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-29-B (A11I167-51)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**80.6**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-29-C (A11I167-52)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**80.7**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-30-A (A11I167-53)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**89.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110908-30-B (A11I167-54)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**84.1**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-30-BD (A11I167-55)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**84.4**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110908-30-C (A11I167-56)			**Matrix: Soil**		**Batch: 1109250**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/16/11 10:23	Apex SOP	
CRP-110909-RW01-A (A11I176-01)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW01-B (A11I176-02)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**92.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW01-C (A11I176-03)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**88.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW02-A (A11I176-04)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**95.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW02-B (A11I176-05)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**89.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW02-C (A11I176-06)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW03-A (A11I176-07)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**86.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW03-B (A11I176-08)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW03-BD (A11I176-09)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-RW03-C (A11I176-10)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**78.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW04-A (A11I176-11)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**84.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW04-B (A11I176-12)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**84.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW04-C (A11I176-13)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-32-A (A11I176-14)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**93.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-32-B (A11I176-15)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-32-C (A11I176-16)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-33-A (A11I176-17)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.0**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-33-B (A11I176-18)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-33-C (A11I176-19)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-34-A (A11I176-20)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**77.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-34-AD (A11I176-21)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-34-B (A11I176-22)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**78.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-34-C (A11I176-23)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**77.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-19-A (A11I176-24)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-19-B (A11I176-25)			**Matrix: Soil**		**Batch: 1109271**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-19-B (A11I176-25)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**88.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-19-C (A11I176-26)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-18-A (A11I176-27)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**83.0**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-18-B (A11I176-28)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-18-C (A11I176-29)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-17-A (A11I176-30)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**84.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-17-B (A11I176-31)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-17-BD (A11I176-32)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-17-C (A11I176-33)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.1**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-11-A (A11I176-34)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**83.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-11-B (A11I176-35)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-11-C (A11I176-36)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-01-A (A11I176-37)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**87.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-01-B (A11I176-38)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-01-C (A11I176-39)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-08-A (A11I176-40)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-08-B (A11I176-41)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**84.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-09-A (A11I176-42)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-09-B (A11I176-43)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-09-BD (A11I176-44)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-09-C (A11I176-45)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-10-A (A11I176-46)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**81.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-10-B (A11I176-47)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-10-C (A11I176-48)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-24-A (A11I184-01)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**82.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-24-B (A11I184-02)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-24-C (A11I184-03)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-13-A (A11I184-04)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**91.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-13-AD (A11I184-05)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-13-B (A11I184-06)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-13-C (A11I184-07)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**89.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-03-A (A11I184-08)			**Matrix: Soil**		**Batch: 1109227**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-03-A (A11I184-08)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**93.7**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-03-B (A11I184-09)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**90.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-02-A (A11I184-10)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-02-B (A11I184-11)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-02-C (A11I184-12)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-05-A (A11I184-13)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**93.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-05-B (A11I184-14)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**84.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-05-C (A11I184-15)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**82.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-49S (A11I184-16)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**78.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-48S (A11I184-17)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**78.1**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-47S (A11I184-18)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**77.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-47SD (A11I184-19)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**74.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-46S (A11I184-20)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**91.1**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-45S (A11I184-21)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**82.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-25-A (A11I184-22)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.1**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-25-B (A11I184-23)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**89.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-25-C (A11I184-24)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-12-A (A11I184-25)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**89.7**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-12-B (A11I184-26)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-12-BD (A11I184-27)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-12-C (A11I184-28)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-07-A (A11I184-29)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**89.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-07-B (A11I184-30)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**91.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-07-C (A11I184-31)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-06-A (A11I184-32)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-06-B (A11I184-33)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-06-BD (A11I184-34)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-06-C (A11I184-35)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-04-A (A11I184-36)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**91.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-04-B (A11I184-37)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**91.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-26-A (A11I184-38)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**83.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-26-B (A11I184-39)			**Matrix: Soil**		**Batch: 1109271**			

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-26-B (A11I184-39)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-26-C (A11I184-40)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109199 - EPA 3051A							**Soil**					
Blank (1109199-BLK1)					Prepared: 09/13/11 10:03		Analyzed: 09/14/11 18:01					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109199-BS1)					Prepared: 09/13/11 10:03		Analyzed: 09/14/11 18:04					
EPA 6020												
Arsenic	50.4	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	49.8	---	1.00	"	"	"	---	100	"	---	---	
Chromium	50.4	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.0	---	1.00	"	"	"	---	102	"	---	---	
Silver	25.4	---	1.00	"	"	25.0	---	102	"	---	---	
Duplicate (1109199-DUP1)					Prepared: 09/13/11 10:03		Analyzed: 09/14/11 18:33					
QC Source Sample: CRP-110907-43-AD (A11I094-08)												
EPA 6020												
Arsenic	ND	---	2.70	mg/kg dry	10	---	0.796	---	---	***	40%	
Cadmium	ND	---	1.35	"	"	---	0.455	---	---	***	40%	
Chromium	**19.6**	---	2.70	"	"	---	44.1	---	---	77	40%	Q-01
Lead	**7.43**	---	1.35	"	"	---	6.81	---	---	9	40%	
Silver	ND	---	1.35	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109199-MS1)					Prepared: 09/13/11 10:03		Analyzed: 09/14/11 18:36					
QC Source Sample: CRP-110907-43-AD (A11I094-08)												
EPA 6020												
Arsenic	61.1	---	2.51	mg/kg dry	10	62.9	0.796	96	75-125%	---	---	
Cadmium	65.1	---	1.26	"	"	"	0.455	103	"	---	---	
Chromium	86.8	---	2.51	"	"	"	44.1	68	"	---	---	Q-01
Lead	67.3	---	1.26	"	"	"	6.81	96	"	---	---	
Silver	32.6	---	1.26	"	"	31.4	ND	104	"	---	---	
Post Spike (1109199-PS1)					Prepared: 09/16/11 09:18		Analyzed: 09/16/11 09:55					
QC Source Sample: CRP-110907-43-AD (A11I094-08)												

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109199 - EPA 3051A							**Soil**					
Post Spike (1109199-PS1)					Prepared: 09/16/11 09:18		Analyzed: 09/16/11 09:55					
QC Source Sample: CRP-110907-43-AD (A11I094-08)												
EPA 6020												
Chromium	798	---		ug/L	10	476	332	98	80-120%		---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109202 - EPA 3051A							**Soil**					
Blank (1109202-BLK1)					Prepared: 09/13/11 10:30		Analyzed: 09/14/11 20:28					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109202-BS1)					Prepared: 09/13/11 10:30		Analyzed: 09/14/11 20:31					
EPA 6020												
Arsenic	51.0	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Cadmium	51.7	---	1.00	"	"	"	---	103	"	---	---	
Chromium	50.8	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.7	---	1.00	"	"	"	---	103	"	---	---	
Silver	26.4	---	1.00	"	"	25.0	---	106	"	---	---	
Matrix Spike (1109202-MS2)					Prepared: 09/13/11 10:30		Analyzed: 09/14/11 22:02					
QC Source Sample: CRP-110908-31-A (A1I167-21)												
EPA 6020												
Arsenic	78.0	---	2.31	mg/kg dry	10	57.8	23.3	95	75-125%	---	---	
Cadmium	58.4	---	1.15	"	"	"	0.311	101	"	---	---	
Chromium	108	---	2.31	"	"	"	54.5	92	"	---	---	
Lead	529	---	1.15	"	"	"	571	-72	"	---	---	Q-03
Silver	29.9	---	1.15	"	"	28.8	0.781	101	"	---	---	
Post Spike (1109202-PS1)					Prepared: 09/16/11 09:53		Analyzed: 09/16/11 09:58					
QC Source Sample: CRP-110908-31-A (A1I167-21)												
EPA 6020												
Lead	1080	---		ug/L	10	500	570	101	80-120%		---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109218 - EPA 3051A							**Soil**					
Blank (1109218-BLK1)					Prepared: 09/14/11 07:20		Analyzed: 09/14/11 22:04					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109218-BS1)					Prepared: 09/14/11 07:20		Analyzed: 09/14/11 22:07					
EPA 6020												
Arsenic	50.7	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	50.8	---	1.00	"	"	"	---	102	"	---	---	
Chromium	50.3	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.5	---	1.00	"	"	"	---	103	"	---	---	
Silver	26.1	---	1.00	"	"	25.0	---	104	"	---	---	
Duplicate (1109218-DUP1)					Prepared: 09/14/11 07:20		Analyzed: 09/16/11 11:19					
QC Source Sample: CRP-110908-15-A (A1I167-28)												
EPA 6020												
Arsenic	ND	---	2.50	mg/kg dry	10	---	1.19	---	---	***	40%	
Cadmium	ND	---	1.25	"	"	---	0.646	---	---	***	40%	
Chromium	**60.5**	---	2.50	"	"	---	58.8	---	---	3	40%	
Lead	**18.1**	---	1.25	"	"	---	20.5	---	---	13	40%	
Silver	ND	---	1.25	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109218-MS1)					Prepared: 09/14/11 07:20		Analyzed: 09/16/11 11:22					
QC Source Sample: CRP-110908-15-A (A1I167-28)												
EPA 6020												
Arsenic	63.1	---	2.58	mg/kg dry	10	64.6	1.19	96	75-125%	---	---	
Cadmium	68.0	---	1.29	"	"	"	0.646	104	"	---	---	
Chromium	120	---	2.58	"	"	"	58.8	95	"	---	---	
Lead	83.7	---	1.29	"	"	"	20.5	98	"	---	---	
Silver	33.4	---	1.29	"	"	32.2	ND	104	"	---	---	
Matrix Spike (1109218-MS2)					Prepared: 09/14/11 07:20		Analyzed: 09/16/11 12:27					
QC Source Sample: CRP-110909-33-A (A1I176-17)												

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109218 - EPA 3051A							**Soil**					
Matrix Spike (1109218-MS2)					Prepared: 09/14/11 07:20		Analyzed: 09/16/11 12:27					
QC Source Sample: CRP-110909-33-A (A11I176-17)												
EPA 6020												
Arsenic	70.7	---	2.27	mg/kg dry	10	56.8	14.3	99	75-125%	---	---	
Cadmium	56.9	---	1.13	"	"	"	0.601	99	"	---	---	
Chromium	120	---	2.27	"	"	"	67.5	93	"	---	---	
Lead	266	---	1.13	"	"	"	230	64	"	---	---	Q-03
Silver	29.0	---	1.13	"	"	28.3	0.501	100	"	---	---	
Post Spike (1109218-PS1)					Prepared: 09/16/11 12:44		Analyzed: 09/16/11 12:49					
QC Source Sample: CRP-110909-33-A (A11I176-17)												
EPA 6020												
Lead	906	---		ug/L	10	500	412	99	80-120%		---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109233 - EPA 3051A							**Soil**					
Blank (1109233-BLK1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:30					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109233-BS1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:33					
EPA 6020												
Arsenic	50.4	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	49.0	---	1.00	"	"	"	---	98	"	---	---	
Chromium	49.2	---	2.00	"	"	"	---	98	"	---	---	
Lead	51.2	---	1.00	"	"	"	---	102	"	---	---	
Silver	25.4	---	1.00	"	"	25.0	---	102	"	---	---	
Duplicate (1109233-DUP1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:58					
QC Source Sample: CRP-110909-17-A (A11I176-30)												
EPA 6020												
Arsenic	ND	---	2.62	mg/kg dry	10	---	1.32	---	---	***	40%	
Cadmium	ND	---	1.31	"	"	---	0.517	---	---	***	40%	
Chromium	**47.9**	---	2.62	"	"	---	53.8	---	---	12	40%	
Lead	**14.5**	---	1.31	"	"	---	13.9	---	---	5	40%	
Silver	ND	---	1.31	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109233-MS1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 13:01					
QC Source Sample: CRP-110909-17-A (A11I176-30)												
EPA 6020												
Arsenic	57.5	---	2.46	mg/kg dry	10	61.5	1.32	91	75-125%	---	---	
Cadmium	63.5	---	1.23	"	"	"	0.517	102	"	---	---	
Chromium	103	---	2.46	"	"	"	53.8	79	"	---	---	
Lead	78.2	---	1.23	"	"	"	13.9	105	"	---	---	
Silver	31.6	---	1.23	"	"	30.7	ND	103	"	---	---	
Matrix Spike (1109233-MS2)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 14:07					
QC Source Sample: CRP-110912-47SD (A11I184-19)												

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109233 - EPA 3051A							**Soil**					
Matrix Spike (1109233-MS2)					Prepared: 09/14/11 12:49	Analyzed: 09/16/11 14:07						
QC Source Sample: CRP-110912-47SD (A11I184-19)												
EPA 6020												
Arsenic	77.4	---	3.03	mg/kg dry	10	75.7	0.409	102	75-125%	---	---	
Cadmium	76.4	---	1.51	"	"	"	0.187	101	"	---	---	
Chromium	88.6	---	3.03	"	"	"	7.99	106	"	---	---	
Lead	81.0	---	1.51	"	"	"	2.49	104	"	---	---	
Silver	39.1	---	1.51	"	"	37.8	ND	103	"	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109238 - EPA 3051A							**Soil**					
Blank (1109238-BLK1)					Prepared: 09/14/11 14:39		Analyzed: 09/14/11 22:16					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109238-BS1)					Prepared: 09/14/11 14:39		Analyzed: 09/14/11 22:19					
EPA 6020												
Arsenic	48.7	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Cadmium	49.5	---	1.00	"	"	"	---	99	"	---	---	
Chromium	48.5	---	2.00	"	"	"	---	97	"	---	---	
Lead	50.4	---	1.00	"	"	"	---	101	"	---	---	
Silver	25.5	---	1.00	"	"	25.0	---	102	"	---	---	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109259 - EPA 3051A							**Soil**					
Blank (1109259-BLK1)					Prepared: 09/15/11 15:16		Analyzed: 09/16/11 14:58					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109259-BS1)					Prepared: 09/15/11 15:16		Analyzed: 09/16/11 15:01					
EPA 6020												
Arsenic	40.6	---	2.00	mg/kg wet	10	50.0	---	81	80-120%	---	---	
Cadmium	40.7	---	1.00	"	"	"	---	81	"	---	---	
Lead	43.4	---	1.00	"	"	"	---	87	"	---	---	
Silver	21.1	---	1.00	"	"	25.0	---	84	"	---	---	
LCS (1109259-BS2)					Prepared: 09/15/11 15:16		Analyzed: 09/19/11 12:39					
EPA 6020												
Chromium	46.8	---	2.00	mg/kg wet	10	50.0	---	93	80-120%	---	---	Q-16

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109279 - EPA 3051A							**Soil**					
Blank (1109279-BLK1)					Prepared: 09/16/11 13:16		Analyzed: 09/20/11 12:27					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109279-BS1)					Prepared: 09/16/11 13:16		Analyzed: 09/20/11 12:30					
EPA 6020												
Arsenic	46.8	---	2.00	mg/kg wet	10	50.0	---	94	80-120%	---	---	
Cadmium	47.8	---	1.00	"	"	"	---	96	"	---	---	
Chromium	47.2	---	2.00	"	"	"	---	94	"	---	---	
Lead	50.0	---	1.00	"	"	"	---	100	"	---	---	
Silver	23.9	---	1.00	"	"	25.0	---	96	"	---	---	
Duplicate (1109279-DUP1)					Prepared: 09/16/11 13:16		Analyzed: 09/20/11 13:01					
QC Source Sample: CRP-110907-39-C (A11I094-06)												
EPA 6020												
Arsenic	ND	---	2.49	mg/kg dry	10	---	1.19	---	---	***	40%	
Cadmium	ND	---	1.25	"	"	---	0.556	---	---	***	40%	
Chromium	**49.1**	---	2.49	"	"	---	50.1	---	---	2	40%	
Lead	**6.23**	---	1.25	"	"	---	6.76	---	---	8	40%	
Silver	ND	---	1.25	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109279-MS1)					Prepared: 09/16/11 13:16		Analyzed: 09/20/11 13:04					
QC Source Sample: CRP-110907-39-C (A11I094-06)												
EPA 6020												
Arsenic	58.9	---	2.48	mg/kg dry	10	62.0	1.19	93	75-125%	---	---	
Cadmium	63.5	---	1.24	"	"	"	0.556	101	"	---	---	
Chromium	117	---	2.48	"	"	"	50.1	107	"	---	---	
Lead	69.0	---	1.24	"	"	"	6.76	100	"	---	---	
Silver	29.8	---	1.24	"	"	31.0	ND	96	"	---	---	
Matrix Spike (1109279-MS2)					Prepared: 09/16/11 13:16		Analyzed: 09/20/11 14:08					
QC Source Sample: CRP-110908-37-B (A11I167-19)												

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109279 - EPA 3051A							**Soil**					
Matrix Spike (1109279-MS2)					Prepared: 09/16/11 13:16		Analyzed: 09/20/11 14:08					
QC Source Sample: CRP-110908-37-B (A11I167-19)												
EPA 6020												
Arsenic	51.2	---	2.15	mg/kg dry	10	53.8	0.907	93	75-125%	---	---	
Cadmium	54.6	---	1.08	"	"	"	0.326	101	"	---	---	
Chromium	62.8	---	2.15	"	"	"	10.9	96	"	---	---	
Lead	63.0	---	1.08	"	"	"	7.68	103	"	---	---	
Silver	25.7	---	1.08	"	"	26.9	ND	95	"	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109301 - EPA 3051A							**Soil**					
Blank (1109301-BLK1)					Prepared: 09/19/11 12:15		Analyzed: 09/19/11 19:26					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109301-BS1)					Prepared: 09/19/11 12:15		Analyzed: 09/19/11 19:29					
EPA 6020												
Arsenic	46.4	---	2.00	mg/kg wet	10	50.0	---	93	80-120%	---	---	
Cadmium	49.4	---	1.00	"	"	"	---	99	"	---	---	
Chromium	47.2	---	2.00	"	"	"	---	94	"	---	---	
Lead	50.8	---	1.00	"	"	"	---	102	"	---	---	
Silver	25.0	---	1.00	"	"	25.0	---	100	"	---	---	
Duplicate (1109301-DUP1)					Prepared: 09/19/11 12:15		Analyzed: 09/19/11 19:52					
QC Source Sample: CRP-110908-31-C (A1I167-24)												
EPA 6020												
Arsenic	**2.40**	---	2.27	mg/kg dry	10	---	2.45	---	---	2	40%	
Cadmium	ND	---	1.13	"	"	---	0.282	---	---	***	40%	
Chromium	**22.5**	---	2.27	"	"	---	21.7	---	---	4	40%	
Lead	**28.2**	---	1.13	"	"	---	21.4	---	---	27	40%	
Silver	ND	---	1.13	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109301-MS1)					Prepared: 09/19/11 12:15		Analyzed: 09/19/11 19:55					
QC Source Sample: CRP-110908-31-C (A1I167-24)												
EPA 6020												
Arsenic	59.4	---	2.37	mg/kg dry	10	59.2	2.45	96	75-125%	---	---	
Cadmium	63.4	---	1.18	"	"	"	0.282	107	"	---	---	
Chromium	79.3	---	2.37	"	"	"	21.7	97	"	---	---	
Lead	89.5	---	1.18	"	"	"	21.4	115	"	---	---	
Silver	31.5	---	1.18	"	"	29.6	ND	107	"	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109307 - EPA 3051A							**Soil**					
Blank (1109307-BLK1)					Prepared: 09/19/11 17:16		Analyzed: 09/20/11 14:11					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109307-BS1)					Prepared: 09/19/11 17:16		Analyzed: 09/20/11 14:14					
EPA 6020												
Arsenic	48.3	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Cadmium	50.1	---	1.00	"	"	"	---	100	"	---	---	
Chromium	47.5	---	2.00	"	"	"	---	95	"	---	---	
Lead	52.7	---	1.00	"	"	"	---	105	"	---	---	
Silver	24.9	---	1.00	"	"	25.0	---	100	"	---	---	
Duplicate (1109307-DUP1)					Prepared: 09/19/11 17:16		Analyzed: 09/20/11 14:37					
QC Source Sample: CRP-110908-40-C (A11I167-49)												
EPA 6020												
Arsenic	ND	---	2.49	mg/kg dry	10	---	1.07	---	---	***	40%	
Cadmium	ND	---	1.25	"	"	---	0.867	---	---	***	40%	
Chromium	**60.3**	---	2.49	"	"	---	56.6	---	---	6	40%	
Lead	**6.58**	---	1.25	"	"	---	7.03	---	---	7	40%	
Silver	ND	---	1.25	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109307-MS1)					Prepared: 09/19/11 17:16		Analyzed: 09/20/11 14:40					
QC Source Sample: CRP-110908-40-C (A11I167-49)												
EPA 6020												
Arsenic	56.1	---	2.53	mg/kg dry	10	63.3	1.07	87	75-125%	---	---	
Cadmium	63.5	---	1.26	"	"	"	0.867	99	"	---	---	
Chromium	114	---	2.53	"	"	"	56.6	91	"	---	---	
Lead	68.1	---	1.26	"	"	"	7.03	97	"	---	---	
Silver	31.0	---	1.26	"	"	31.6	ND	98	"	---	---	
Matrix Spike (1109307-MS2)					Prepared: 09/19/11 17:16		Analyzed: 09/20/11 16:21					
QC Source Sample: CRP-110909-32-B (A11I176-15)												

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109307 - EPA 3051A							**Soil**					
Matrix Spike (1109307-MS2)					Prepared: 09/19/11 17:16		Analyzed: 09/20/11 16:21					
QC Source Sample: CRP-110909-32-B (A11I176-15)												
EPA 6020												
Arsenic	54.8	---	2.37	mg/kg dry	10	59.2	2.41	88	75-125%	---	---	
Cadmium	56.0	---	1.18	"	"	"	0.310	94	"	---	---	
Chromium	72.8	---	2.37	"	"	"	24.9	81	"	---	---	
Lead	247	---	1.18	"	"	"	233	23	"	---	---	Q-01
Matrix Spike (1109307-MS3)					Prepared: 09/19/11 17:16		Analyzed: 09/21/11 09:52					
QC Source Sample: CRP-110909-32-B (A11I176-15)												
EPA 6020												
Silver	29.8	---	1.18	mg/kg dry	10	29.6	ND	101	75-125%	---	---	Q-16
Post Spike (1109307-PS1)					Prepared: 09/20/11 16:28		Analyzed: 09/20/11 16:32					
QC Source Sample: CRP-110909-32-B (A11I176-15)												
EPA 6020												
Lead	2350	---		ug/L	10	476	1790	119	80-120%		---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109312 - EPA 3051A							**Soil**					
Blank (1109312-BLK1)					Prepared: 09/20/11 09:35		Analyzed: 09/21/11 12:07					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109312-BS1)					Prepared: 09/20/11 09:35		Analyzed: 09/21/11 12:10					
EPA 6020												
Arsenic	49.3	---	2.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Cadmium	48.7	---	1.00	"	"	"	---	97	"	---	---	
Chromium	49.7	---	2.00	"	"	"	---	99	"	---	---	
Lead	51.0	---	1.00	"	"	"	---	102	"	---	---	
Silver	26.0	---	1.00	"	"	25.0	---	104	"	---	---	
Duplicate (1109312-DUP1)					Prepared: 09/20/11 09:35		Analyzed: 09/21/11 12:33					
QC Source Sample: CRP-110909-34-AD (A11I176-21)												
EPA 6020												
Arsenic	ND	---	2.59	mg/kg dry	10	---	2.53	---	---	***	40%	
Cadmium	ND	---	1.29	"	"	---	0.885	---	---	***	40%	
Chromium	**66.1**	---	2.59	"	"	---	64.6	---	---	2	40%	
Lead	**80.9**	---	1.29	"	"	---	70.6	---	---	14	40%	
Silver	ND	---	1.29	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109312-MS1)					Prepared: 09/20/11 09:35		Analyzed: 09/21/11 12:44					
QC Source Sample: CRP-110909-34-AD (A11I176-21)												
EPA 6020												
Arsenic	60.2	---	2.48	mg/kg dry	10	61.9	2.53	93	75-125%	---	---	
Cadmium	62.7	---	1.24	"	"	"	0.885	100	"	---	---	
Chromium	128	---	2.48	"	"	"	64.6	103	"	---	---	
Lead	134	---	1.24	"	"	"	70.6	102	"	---	---	
Silver	31.5	---	1.24	"	"	30.9	ND	102	"	---	---	
Matrix Spike (1109312-MS2)					Prepared: 09/20/11 09:35		Analyzed: 09/21/11 13:41					
QC Source Sample: CRP-110909-09-B (A11I176-43)												

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109312 - EPA 3051A							**Soil**					
Matrix Spike (1109312-MS2)						Prepared: 09/20/11 09:35	Analyzed: 09/21/11 13:41					
QC Source Sample: CRP-110909-09-B (A11I176-43)												
EPA 6020												
Arsenic	66.4	---	2.57	mg/kg dry	10	64.2	7.56	92	75-125%	---	---	
Cadmium	63.6	---	1.28	"	"	"	1.00	97	"	---	---	
Chromium	128	---	2.57	"	"	"	65.3	97	"	---	---	
Lead	180	---	1.28	"	"	"	124	88	"	---	---	
Silver	33.4	---	1.28	"	"	32.1	ND	104	"	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109320 - EPA 3051A							**Soil**					
Blank (1109320-BLK1)					Prepared: 09/20/11 11:42		Analyzed: 09/21/11 13:44					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109320-BS1)					Prepared: 09/20/11 11:42		Analyzed: 09/21/11 13:47					
EPA 6020												
Arsenic	49.1	---	2.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Cadmium	48.9	---	1.00	"	"	"	---	98	"	---	---	
Chromium	50.0	---	2.00	"	"	"	---	100	"	---	---	
Lead	52.1	---	1.00	"	"	"	---	104	"	---	---	
Silver	25.0	---	1.00	"	"	25.0	---	100	"	---	---	
Duplicate (1109320-DUP1)					Prepared: 09/20/11 11:42		Analyzed: 09/21/11 14:46					
QC Source Sample: CRP-110909-10-C (A11I176-48)												
EPA 6020												
Arsenic	ND	---	2.46	mg/kg dry	10	---	1.83	---	---	***	40%	
Cadmium	ND	---	1.23	"	"	---	0.834	---	---	***	40%	
Chromium	**51.1**	---	2.46	"	"	---	55.1	---	---	8	40%	
Lead	**12.0**	---	1.23	"	"	---	15.7	---	---	26	40%	
Silver	ND	---	1.23	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109320-MS1)					Prepared: 09/20/11 11:42		Analyzed: 09/21/11 14:49					
QC Source Sample: CRP-110909-10-C (A11I176-48)												
EPA 6020												
Arsenic	58.1	---	2.43	mg/kg dry	10	60.8	1.83	92	75-125%	---	---	
Cadmium	61.2	---	1.22	"	"	"	0.834	99	"	---	---	
Chromium	114	---	2.43	"	"	"	55.1	97	"	---	---	
Lead	72.5	---	1.22	"	"	"	15.7	93	"	---	---	
Silver	30.9	---	1.22	"	"	30.4	ND	102	"	---	---	
Matrix Spike (1109320-MS2)					Prepared: 09/20/11 11:42		Analyzed: 09/22/11 10:32					
QC Source Sample: CRP-110912-07-B (A11I184-30)												

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109320 - EPA 3051A							**Soil**					
Matrix Spike (1109320-MS2)					Prepared: 09/20/11 11:42		Analyzed: 09/22/11 10:32					
QC Source Sample: CRP-110912-07-B (A11I184-30)												
EPA 6020												
Arsenic	54.7	---	2.32	mg/kg dry	10	57.9	1.16	92	75-125%	---	---	
Cadmium	56.7	---	1.16	"	"	"	ND	98	"	---	---	
Chromium	70.2	---	2.32	"	"	"	12.3	100	"	---	---	
Lead	192	---	1.16	"	"	"	92.3	173	"	---	---	Q-01
Silver	28.4	---	1.16	"	"	28.9	ND	98	"	---	---	
Post Spike (1109320-PS1)					Prepared: 09/22/11 10:36		Analyzed: 09/22/11 10:50					
QC Source Sample: CRP-110912-07-B (A11I184-30)												
EPA 6020												
Lead	1310	---		ug/L	10	476	811	106	80-120%		---	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109326 - EPA 3051A							**Soil**					
Blank (1109326-BLK1)					Prepared: 09/21/11 08:59		Analyzed: 09/22/11 10:35					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109326-BS1)					Prepared: 09/21/11 08:59		Analyzed: 09/22/11 10:38					
EPA 6020												
Arsenic	48.1	---	2.00	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Cadmium	48.7	---	1.00	"	"	"	---	97	"	---	---	
Chromium	48.4	---	2.00	"	"	"	---	97	"	---	---	
Lead	50.1	---	1.00	"	"	"	---	100	"	---	---	
Silver	25.5	---	1.00	"	"	25.0	---	102	"	---	---	
Matrix Spike (1109326-MS2)					Prepared: 09/21/11 08:59		Analyzed: 09/22/11 12:14					
QC Source Sample: CRP-110912-26-C (A1I184-40)												
EPA 6020												
Arsenic	60.4	---	2.38	mg/kg dry	10	59.5	0.968	100	75-125%	---	---	
Cadmium	61.3	---	1.19	"	"	"	ND	103	"	---	---	
Chromium	77.6	---	2.38	"	"	"	20.3	96	"	---	---	
Lead	64.8	---	1.19	"	"	"	4.46	101	"	---	---	
Silver	31.3	---	1.19	"	"	29.7	ND	105	"	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109113 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109113-DUP6)					Prepared: 09/08/11 14:53		Analyzed: 09/09/11 11:12					
QC Source Sample: CRP-110907-39-A (A11I094-04)												
Apex SOP												
% Solids	**83.0**	---	1.00	% by Weight	1	---	82.0	---	---	1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109227 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109227-DUP5)					Prepared: 09/14/11 10:41		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110912-07-A (A11I184-29)												
Apex SOP												
% Solids	**88.7**	---	1.00	% by Weight	1	---	89.2	---	---	0.6	20%	
Duplicate (1109227-DUP6)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110912-26-A (A11I184-38)												
Apex SOP												
% Solids	**85.3**	---	1.00	% by Weight	1	---	83.9	---	---	2	20%	
Duplicate (1109227-DUP7)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110912-06-A (A11I184-32)												
Apex SOP												
% Solids	**93.2**	---	1.00	% by Weight	1	---	92.9	---	---	0.3	20%	
Duplicate (1109227-DUP8)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110909-34-A (A11I176-20)												
Apex SOP												
% Solids	**78.5**	---	1.00	% by Weight	1	---	77.6	---	---	1	20%	
Duplicate (1109227-DUP9)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110909-32-A (A11I176-14)												
Apex SOP												
% Solids	**93.3**	---	1.00	% by Weight	1	---	93.5	---	---	0.2	20%	
Duplicate (1109227-DUPA)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110908-40-AD (A11I167-47)												

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109227 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109227-DUPA)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110908-40-AD (A11I167-47)												
Apex SOP												
% Solids	**79.7**	---	1.00	% by Weight	1	---	79.9	---	---	0.3	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109250 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109250-DUP6)					Prepared: 09/15/11 13:22		Analyzed: 09/16/11 10:23					
QC Source Sample: CRP-110907-38-C (A11I094-03)												
Apex SOP												
% Solids	**82.9**	---	1.00	% by Weight	1	---	84.1	---	---	1	20%	
Duplicate (1109250-DUP7)					Prepared: 09/15/11 13:22		Analyzed: 09/16/11 10:23					
QC Source Sample: CRP-110908-22-B (A11I167-38)												
Apex SOP												
% Solids	**78.0**	---	1.00	% by Weight	1	---	78.3	---	---	0.4	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109271 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109271-DUP1)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-RW01-C (A11I176-03)												
Apex SOP												
% Solids	**87.5**	---	1.00	% by Weight	1	---	88.6	---	---	1	20%	
Duplicate (1109271-DUP2)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-RW01-B (A11I176-02)												
Apex SOP												
% Solids	**89.6**	---	1.00	% by Weight	1	---	92.0	---	---	3	20%	
Duplicate (1109271-DUP3)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-33-C (A11I176-19)												
Apex SOP												
% Solids	**81.1**	---	1.00	% by Weight	1	---	80.7	---	---	0.5	20%	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109271 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109271-DUP4)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-17-BD (A11I176-32)												
Apex SOP												
% Solids	**81.4**	---	1.00	% by Weight	1	---	81.7	---	---	0.4	20%	
Duplicate (1109271-DUP5)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110912-06-BD (A11I184-34)												
Apex SOP												
% Solids	**85.4**	---	1.00	% by Weight	1	---	85.3	---	---	0.1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1109199							
A11I094-01	Soil	EPA 6020	09/07/11 14:43	09/13/11 10:03	0.493g/50mL	0.5g/50mL	1.01
A11I094-04	Soil	EPA 6020	09/07/11 15:26	09/13/11 10:03	0.517g/50mL	0.5g/50mL	0.97
A11I094-07	Soil	EPA 6020	09/07/11 14:45	09/13/11 10:03	0.499g/50mL	0.5g/50mL	1.00
A11I094-08	Soil	EPA 6020	09/07/11 14:45	09/13/11 10:03	0.515g/50mL	0.5g/50mL	0.97
A11I094-11	Soil	EPA 6020	09/07/11 15:30	09/13/11 10:03	0.511g/50mL	0.5g/50mL	0.98
Batch: 1109202							
A11I167-01	Soil	EPA 6020	09/08/11 09:06	09/13/11 10:30	0.443g/50mL	0.5g/50mL	1.13
A11I167-05	Soil	EPA 6020	09/08/11 09:43	09/13/11 10:30	0.462g/50mL	0.5g/50mL	1.08
A11I167-08	Soil	EPA 6020	09/08/11 10:20	09/13/11 10:30	0.435g/50mL	0.5g/50mL	1.15
A11I167-11	Soil	EPA 6020	09/08/11 11:07	09/13/11 10:30	0.506g/50mL	0.5g/50mL	0.99
A11I167-14	Soil	EPA 6020	09/08/11 13:08	09/13/11 10:30	0.495g/50mL	0.5g/50mL	1.01
A11I167-15	Soil	EPA 6020	09/08/11 13:40	09/13/11 10:30	0.449g/50mL	0.5g/50mL	1.11
A11I167-18	Soil	EPA 6020	09/08/11 14:26	09/13/11 10:30	0.443g/50mL	0.5g/50mL	1.13
A11I167-21	Soil	EPA 6020	09/08/11 15:05	09/13/11 10:30	0.514g/50mL	0.5g/50mL	0.97
Batch: 1109218							
A11I167-25	Soil	EPA 6020	09/08/11 15:57	09/14/11 07:20	0.45g/50mL	0.5g/50mL	1.11
A11I167-28	Soil	EPA 6020	09/08/11 09:12	09/14/11 07:20	0.502g/50mL	0.5g/50mL	1.00
A11I167-31	Soil	EPA 6020	09/08/11 09:48	09/14/11 07:20	0.48g/50mL	0.5g/50mL	1.04
A11I167-34	Soil	EPA 6020	09/08/11 10:21	09/14/11 07:20	0.483g/50mL	0.5g/50mL	1.04
A11I167-37	Soil	EPA 6020	09/08/11 10:57	09/14/11 07:20	0.488g/50mL	0.5g/50mL	1.02
A11I167-40	Soil	EPA 6020	09/08/11 13:17	09/14/11 07:20	0.486g/50mL	0.5g/50mL	1.03
A11I167-43	Soil	EPA 6020	09/08/11 13:51	09/14/11 07:20	0.478g/50mL	0.5g/50mL	1.05
A11I167-46	Soil	EPA 6020	09/08/11 14:33	09/14/11 07:20	0.498g/50mL	0.5g/50mL	1.00
A11I167-47	Soil	EPA 6020	09/08/11 14:33	09/14/11 07:20	0.475g/50mL	0.5g/50mL	1.05
A11I167-50	Soil	EPA 6020	09/08/11 15:12	09/14/11 07:20	0.514g/50mL	0.5g/50mL	0.97
A11I167-53	Soil	EPA 6020	09/08/11 15:41	09/14/11 07:20	0.512g/50mL	0.5g/50mL	0.98
A11I176-01	Soil	EPA 6020	09/09/11 08:15	09/14/11 07:20	0.482g/50mL	0.5g/50mL	1.04
A11I176-04	Soil	EPA 6020	09/09/11 09:02	09/14/11 07:20	0.474g/50mL	0.5g/50mL	1.05
A11I176-07	Soil	EPA 6020	09/09/11 10:32	09/14/11 07:20	0.466g/50mL	0.5g/50mL	1.07
A11I176-11	Soil	EPA 6020	09/09/11 09:45	09/14/11 07:20	0.511g/50mL	0.5g/50mL	0.98
A11I176-14	Soil	EPA 6020	09/09/11 12:28	09/14/11 07:20	0.491g/50mL	0.5g/50mL	1.02
A11I176-17	Soil	EPA 6020	09/09/11 13:17	09/14/11 07:20	0.488g/50mL	0.5g/50mL	1.02
Batch: 1109233							

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I176-20	Soil	EPA 6020	09/09/11 14:08	09/14/11 12:49	0.529g/50mL	0.5g/50mL	0.95
A11I176-24	Soil	EPA 6020	09/09/11 08:22	09/14/11 12:49	0.45g/50mL	0.5g/50mL	1.11
A11I176-27	Soil	EPA 6020	09/09/11 08:49	09/14/11 12:49	0.447g/50mL	0.5g/50mL	1.12
A11I176-30	Soil	EPA 6020	09/09/11 09:26	09/14/11 12:49	0.456g/50mL	0.5g/50mL	1.10
A11I176-34	Soil	EPA 6020	09/09/11 10:09	09/14/11 12:49	0.448g/50mL	0.5g/50mL	1.12
A11I176-37	Soil	EPA 6020	09/09/11 10:49	09/14/11 12:49	0.482g/50mL	0.5g/50mL	1.04
A11I176-40	Soil	EPA 6020	09/09/11 12:33	09/14/11 12:49	0.531g/50mL	0.5g/50mL	0.94
A11I176-42	Soil	EPA 6020	09/09/11 13:19	09/14/11 12:49	0.482g/50mL	0.5g/50mL	1.04
A11I176-46	Soil	EPA 6020	09/09/11 14:12	09/14/11 12:49	0.464g/50mL	0.5g/50mL	1.08
A11I184-01	Soil	EPA 6020	09/12/11 08:55	09/14/11 12:49	0.486g/50mL	0.5g/50mL	1.03
A11I184-04	Soil	EPA 6020	09/12/11 09:28	09/14/11 12:49	0.462g/50mL	0.5g/50mL	1.08
A11I184-05	Soil	EPA 6020	09/12/11 09:28	09/14/11 12:49	0.444g/50mL	0.5g/50mL	1.13
A11I184-08	Soil	EPA 6020	09/12/11 10:17	09/14/11 12:49	0.44g/50mL	0.5g/50mL	1.14
A11I184-10	Soil	EPA 6020	09/12/11 10:46	09/14/11 12:49	0.463g/50mL	0.5g/50mL	1.08
A11I184-13	Soil	EPA 6020	09/12/11 11:36	09/14/11 12:49	0.468g/50mL	0.5g/50mL	1.07
A11I184-16	Soil	EPA 6020	09/12/11 13:18	09/14/11 12:49	0.489g/50mL	0.5g/50mL	1.02
A11I184-17	Soil	EPA 6020	09/12/11 13:28	09/14/11 12:49	0.446g/50mL	0.5g/50mL	1.12
A11I184-18	Soil	EPA 6020	09/12/11 13:44	09/14/11 12:49	0.458g/50mL	0.5g/50mL	1.09
A11I184-19	Soil	EPA 6020	09/12/11 13:44	09/14/11 12:49	0.573g/50mL	0.5g/50mL	0.87
Batch: 1109238							
A11I184-20	Soil	EPA 6020	09/12/11 13:56	09/14/11 14:39	0.521g/50mL	0.5g/50mL	0.96
A11I184-21	Soil	EPA 6020	09/12/11 14:08	09/14/11 14:39	0.522g/50mL	0.5g/50mL	0.96
A11I184-22	Soil	EPA 6020	09/12/11 08:59	09/14/11 14:39	0.49g/50mL	0.5g/50mL	1.02
A11I184-25	Soil	EPA 6020	09/12/11 09:37	09/14/11 14:39	0.508g/50mL	0.5g/50mL	0.98
A11I184-29	Soil	EPA 6020	09/12/11 10:14	09/14/11 14:39	0.495g/50mL	0.5g/50mL	1.01
A11I184-32	Soil	EPA 6020	09/12/11 10:49	09/14/11 14:39	0.514g/50mL	0.5g/50mL	0.97
A11I184-36	Soil	EPA 6020	09/12/11 11:40	09/14/11 14:39	0.497g/50mL	0.5g/50mL	1.01
A11I184-38	Soil	EPA 6020	09/12/11 13:19	09/14/11 14:39	0.494g/50mL	0.5g/50mL	1.01
Batch: 1109259							
A11I094-13	Soil	EPA 6020	09/07/11 15:48	09/15/11 15:16	0.49g/50mL	0.5g/50mL	1.02
Batch: 1109279							
A11I094-02	Soil	EPA 6020	09/07/11 14:52	09/16/11 13:16	0.523g/50mL	0.5g/50mL	0.96
A11I094-03	Soil	EPA 6020	09/07/11 14:58	09/16/11 13:16	0.503g/50mL	0.5g/50mL	0.99
A11I094-05	Soil	EPA 6020	09/07/11 15:35	09/16/11 13:16	0.494g/50mL	0.5g/50mL	1.01

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I094-06	Soil	EPA 6020	09/07/11 15:45	09/16/11 13:16	0.477g/50mL	0.5g/50mL	1.05
A11I094-09	Soil	EPA 6020	09/07/11 14:50	09/16/11 13:16	0.484g/50mL	0.5g/50mL	1.03
A11I094-10	Soil	EPA 6020	09/07/11 14:55	09/16/11 13:16	0.488g/50mL	0.5g/50mL	1.02
A11I094-12	Soil	EPA 6020	09/07/11 15:41	09/16/11 13:16	0.502g/50mL	0.5g/50mL	1.00
A11I167-02	Soil	EPA 6020	09/08/11 09:15	09/16/11 13:16	0.505g/50mL	0.5g/50mL	0.99
A11I167-03	Soil	EPA 6020	09/08/11 09:15	09/16/11 13:16	0.491g/50mL	0.5g/50mL	1.02
A11I167-04	Soil	EPA 6020	09/08/11 09:25	09/16/11 13:16	0.516g/50mL	0.5g/50mL	0.97
A11I167-06	Soil	EPA 6020	09/08/11 09:50	09/16/11 13:16	0.468g/50mL	0.5g/50mL	1.07
A11I167-07	Soil	EPA 6020	09/08/11 10:02	09/16/11 13:16	0.478g/50mL	0.5g/50mL	1.05
A11I167-09	Soil	EPA 6020	09/08/11 10:27	09/16/11 13:16	0.494g/50mL	0.5g/50mL	1.01
A11I167-10	Soil	EPA 6020	09/08/11 10:38	09/16/11 13:16	0.489g/50mL	0.5g/50mL	1.02
A11I167-12	Soil	EPA 6020	09/08/11 11:13	09/16/11 13:16	0.506g/50mL	0.5g/50mL	0.99
A11I167-13	Soil	EPA 6020	09/08/11 11:23	09/16/11 13:16	0.483g/50mL	0.5g/50mL	1.04
A11I167-16	Soil	EPA 6020	09/08/11 13:48	09/16/11 13:16	0.516g/50mL	0.5g/50mL	0.97
A11I167-17	Soil	EPA 6020	09/08/11 14:00	09/16/11 13:16	0.521g/50mL	0.5g/50mL	0.96
A11I167-19	Soil	EPA 6020	09/08/11 14:33	09/16/11 13:16	0.473g/50mL	0.5g/50mL	1.06
Batch: 1109301							
A11I167-20	Soil	EPA 6020	09/08/11 14:46	09/19/11 12:15	0.506g/50mL	0.5g/50mL	0.99
A11I167-22	Soil	EPA 6020	09/08/11 15:16	09/19/11 12:15	0.48g/50mL	0.5g/50mL	1.04
A11I167-23	Soil	EPA 6020	09/08/11 15:16	09/19/11 12:15	0.491g/50mL	0.5g/50mL	1.02
A11I167-24	Soil	EPA 6020	09/08/11 15:30	09/19/11 12:15	0.523g/50mL	0.5g/50mL	0.96
A11I167-26	Soil	EPA 6020	09/08/11 16:02	09/19/11 12:15	0.456g/50mL	0.5g/50mL	1.10
A11I167-27	Soil	EPA 6020	09/08/11 16:16	09/19/11 12:15	0.505g/50mL	0.5g/50mL	0.99
A11I167-29	Soil	EPA 6020	09/08/11 09:20	09/19/11 12:15	0.492g/50mL	0.5g/50mL	1.02
A11I167-30	Soil	EPA 6020	09/08/11 09:27	09/19/11 12:15	0.518g/50mL	0.5g/50mL	0.97
A11I167-32	Soil	EPA 6020	09/08/11 09:53	09/19/11 12:15	0.522g/50mL	0.5g/50mL	0.96
A11I167-33	Soil	EPA 6020	09/08/11 10:01	09/19/11 12:15	0.52g/50mL	0.5g/50mL	0.96
A11I167-35	Soil	EPA 6020	09/08/11 10:27	09/19/11 12:15	0.531g/50mL	0.5g/50mL	0.94
A11I167-36	Soil	EPA 6020	09/08/11 10:36	09/19/11 12:15	0.496g/50mL	0.5g/50mL	1.01
A11I167-38	Soil	EPA 6020	09/08/11 11:06	09/19/11 12:15	0.465g/50mL	0.5g/50mL	1.08
A11I167-39	Soil	EPA 6020	09/08/11 11:12	09/19/11 12:15	0.514g/50mL	0.5g/50mL	0.97
A11I167-41	Soil	EPA 6020	09/08/11 13:26	09/19/11 12:15	0.502g/50mL	0.5g/50mL	1.00
A11I167-42	Soil	EPA 6020	09/08/11 13:32	09/19/11 12:15	0.518g/50mL	0.5g/50mL	0.97
Batch: 1109307							

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I167-44	Soil	EPA 6020	09/08/11 14:00	09/19/11 17:16	0.52g/50mL	0.5g/50mL	0.96
A11I167-45	Soil	EPA 6020	09/08/11 14:06	09/19/11 17:16	0.499g/50mL	0.5g/50mL	1.00
A11I167-48	Soil	EPA 6020	09/08/11 14:40	09/19/11 17:16	0.474g/50mL	0.5g/50mL	1.05
A11I167-49	Soil	EPA 6020	09/08/11 14:47	09/19/11 17:16	0.472g/50mL	0.5g/50mL	1.06
A11I167-51	Soil	EPA 6020	09/08/11 15:18	09/19/11 17:16	0.525g/50mL	0.5g/50mL	0.95
A11I167-52	Soil	EPA 6020	09/08/11 15:23	09/19/11 17:16	0.469g/50mL	0.5g/50mL	1.07
A11I167-54	Soil	EPA 6020	09/08/11 15:52	09/19/11 17:16	0.505g/50mL	0.5g/50mL	0.99
A11I167-55	Soil	EPA 6020	09/08/11 15:52	09/19/11 17:16	0.504g/50mL	0.5g/50mL	0.99
A11I167-56	Soil	EPA 6020	09/08/11 16:01	09/19/11 17:16	0.463g/50mL	0.5g/50mL	1.08
A11I176-02	Soil	EPA 6020	09/09/11 08:27	09/19/11 17:16	0.517g/50mL	0.5g/50mL	0.97
A11I176-03	Soil	EPA 6020	09/09/11 08:41	09/19/11 17:16	0.47g/50mL	0.5g/50mL	1.06
A11I176-05	Soil	EPA 6020	09/09/11 09:08	09/19/11 17:16	0.501g/50mL	0.5g/50mL	1.00
A11I176-06	Soil	EPA 6020	09/09/11 09:20	09/19/11 17:16	0.517g/50mL	0.5g/50mL	0.97
A11I176-08	Soil	EPA 6020	09/09/11 10:40	09/19/11 17:16	0.465g/50mL	0.5g/50mL	1.08
A11I176-09	Soil	EPA 6020	09/09/11 10:40	09/19/11 17:16	0.503g/50mL	0.5g/50mL	0.99
A11I176-10	Soil	EPA 6020	09/09/11 10:55	09/19/11 17:16	0.49g/50mL	0.5g/50mL	1.02
A11I176-12	Soil	EPA 6020	09/09/11 09:51	09/19/11 17:16	0.494g/50mL	0.5g/50mL	1.01
A11I176-13	Soil	EPA 6020	09/09/11 10:08	09/19/11 17:16	0.514g/50mL	0.5g/50mL	0.97
A11I176-15	Soil	EPA 6020	09/09/11 12:38	09/19/11 17:16	0.474g/50mL	0.5g/50mL	1.05
Batch: 1109312							
A11I176-16	Soil	EPA 6020	09/09/11 12:52	09/20/11 09:35	0.512g/50mL	0.5g/50mL	0.98
A11I176-18	Soil	EPA 6020	09/09/11 13:25	09/20/11 09:35	0.498g/50mL	0.5g/50mL	1.00
A11I176-19	Soil	EPA 6020	09/09/11 13:30	09/20/11 09:35	0.525g/50mL	0.5g/50mL	0.95
A11I176-21	Soil	EPA 6020	09/09/11 14:08	09/20/11 09:35	0.492g/50mL	0.5g/50mL	1.02
A11I176-22	Soil	EPA 6020	09/09/11 14:16	09/20/11 09:35	0.49g/50mL	0.5g/50mL	1.02
A11I176-23	Soil	EPA 6020	09/09/11 14:22	09/20/11 09:35	0.499g/50mL	0.5g/50mL	1.00
A11I176-25	Soil	EPA 6020	09/09/11 08:27	09/20/11 09:35	0.483g/50mL	0.5g/50mL	1.04
A11I176-26	Soil	EPA 6020	09/09/11 08:33	09/20/11 09:35	0.519g/50mL	0.5g/50mL	0.96
A11I176-28	Soil	EPA 6020	09/09/11 08:57	09/20/11 09:35	0.486g/50mL	0.5g/50mL	1.03
A11I176-29	Soil	EPA 6020	09/09/11 09:05	09/20/11 09:35	0.485g/50mL	0.5g/50mL	1.03
A11I176-31	Soil	EPA 6020	09/09/11 09:33	09/20/11 09:35	0.499g/50mL	0.5g/50mL	1.00
A11I176-32	Soil	EPA 6020	09/09/11 09:33	09/20/11 09:35	0.479g/50mL	0.5g/50mL	1.04
A11I176-33	Soil	EPA 6020	09/09/11 09:41	09/20/11 09:35	0.482g/50mL	0.5g/50mL	1.04
A11I176-35	Soil	EPA 6020	09/09/11 10:22	09/20/11 09:35	0.526g/50mL	0.5g/50mL	0.95

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A11I176-36	Soil	EPA 6020	09/09/11 10:31	09/20/11 09:35	0.499g/50mL	0.5g/50mL	1.00
A11I176-38	Soil	EPA 6020	09/09/11 11:03	09/20/11 09:35	0.502g/50mL	0.5g/50mL	1.00
A11I176-39	Soil	EPA 6020	09/09/11 11:10	09/20/11 09:35	0.501g/50mL	0.5g/50mL	1.00
A11I176-41	Soil	EPA 6020	09/09/11 12:45	09/20/11 09:35	0.497g/50mL	0.5g/50mL	1.01
A11I176-43	Soil	EPA 6020	09/09/11 13:40	09/20/11 09:35	0.5g/50mL	0.5g/50mL	1.00
Batch: 1109320							
A11I176-44	Soil	EPA 6020	09/09/11 13:40	09/20/11 11:42	0.497g/50mL	0.5g/50mL	1.01
A11I176-45	Soil	EPA 6020	09/09/11 13:50	09/20/11 11:42	0.503g/50mL	0.5g/50mL	0.99
A11I176-47	Soil	EPA 6020	09/09/11 14:20	09/20/11 11:42	0.514g/50mL	0.5g/50mL	0.97
A11I176-48	Soil	EPA 6020	09/09/11 14:24	09/20/11 11:42	0.493g/50mL	0.5g/50mL	1.01
A11I184-02	Soil	EPA 6020	09/12/11 09:02	09/20/11 11:42	0.487g/50mL	0.5g/50mL	1.03
A11I184-03	Soil	EPA 6020	09/12/11 09:07	09/20/11 11:42	0.471g/50mL	0.5g/50mL	1.06
A11I184-06	Soil	EPA 6020	09/12/11 09:42	09/20/11 11:42	0.483g/50mL	0.5g/50mL	1.04
A11I184-07	Soil	EPA 6020	09/12/11 09:55	09/20/11 11:42	0.495g/50mL	0.5g/50mL	1.01
A11I184-09	Soil	EPA 6020	09/12/11 10:35	09/20/11 11:42	0.477g/50mL	0.5g/50mL	1.05
A11I184-11	Soil	EPA 6020	09/12/11 10:58	09/20/11 11:42	0.517g/50mL	0.5g/50mL	0.97
A11I184-12	Soil	EPA 6020	09/12/11 11:07	09/20/11 11:42	0.477g/50mL	0.5g/50mL	1.05
A11I184-14	Soil	EPA 6020	09/12/11 11:46	09/20/11 11:42	0.482g/50mL	0.5g/50mL	1.04
A11I184-15	Soil	EPA 6020	09/12/11 11:55	09/20/11 11:42	0.487g/50mL	0.5g/50mL	1.03
A11I184-23	Soil	EPA 6020	09/12/11 09:08	09/20/11 11:42	0.512g/50mL	0.5g/50mL	0.98
A11I184-24	Soil	EPA 6020	09/12/11 09:14	09/20/11 11:42	0.488g/50mL	0.5g/50mL	1.02
A11I184-26	Soil	EPA 6020	09/12/11 09:45	09/20/11 11:42	0.512g/50mL	0.5g/50mL	0.98
A11I184-27	Soil	EPA 6020	09/12/11 09:45	09/20/11 11:42	0.485g/50mL	0.5g/50mL	1.03
A11I184-28	Soil	EPA 6020	09/12/11 09:55	09/20/11 11:42	0.497g/50mL	0.5g/50mL	1.01
A11I184-30	Soil	EPA 6020	09/12/11 10:20	09/20/11 11:42	0.505g/50mL	0.5g/50mL	0.99
Batch: 1109326							
A11I184-31	Soil	EPA 6020	09/12/11 10:30	09/21/11 08:59	0.518g/50mL	0.5g/50mL	0.97
A11I184-33	Soil	EPA 6020	09/12/11 10:59	09/21/11 08:59	0.466g/50mL	0.5g/50mL	1.07
A11I184-34	Soil	EPA 6020	09/12/11 10:59	09/21/11 08:59	0.492g/50mL	0.5g/50mL	1.02
A11I184-35	Soil	EPA 6020	09/12/11 11:09	09/21/11 08:59	0.502g/50mL	0.5g/50mL	1.00
A11I184-37	Soil	EPA 6020	09/12/11 11:46	09/21/11 08:59	0.476g/50mL	0.5g/50mL	1.05
A11I184-39	Soil	EPA 6020	09/12/11 13:29	09/21/11 08:59	0.483g/50mL	0.5g/50mL	1.04
A11I184-40	Soil	EPA 6020	09/12/11 13:33	09/21/11 08:59	0.487g/50mL	0.5g/50mL	1.03

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

Notes and Definitions

Qualifiers:

Q-01	Percent recovery and/or RPD is outside acceptance limits.
Q-03	Percent recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-16	Reanalysis of an original Batch QC sample.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

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434 NW Sixth Avenue, Suite 203 · Portland OR 97209
(503) 796-0717 · Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rico Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhl/Jane Clair Kerin

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Other
Multi-Phase Sample: Test One (which) / Test Secondary / None

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110907-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	Written	Remarks
1	38-A	7-Sep-11	1443	0.0 - 0.5' bgs	x			1	X		
2	38-B	7-Sep-11	1452	0.5 - 1.0' bgs	x			1			
3	38-C	7-Sep-11	1458	1.0 - 1.5' bgs	x			1			
4	39-A	7-Sep-11	1520	0.0 - 0.5' bgs	x			1	X		
5	39-B	7-Sep-11	1535	0.5 - 1.0' bgs	x			1			
6	39-C	7-Sep-11	1545	1.0 - 1.5' bgs	x			1			
7	43-A	7-Sep-11	1445	0.0 - 0.5' bgs	x			1	X		
8	43-AD	7-Sep-11	1445	0.0 - 0.5' bgs	x			1	X		
9	43-B	7-Sep-11	1450	0.5 - 1.0' bgs	x			1			
10	43-C	7-Sep-11	1455	1.0 - 1.5' bgs	x			1			
11	44-A	7-Sep-11	1530	0.0 - 0.5' bgs	x			1	X		
12	44-B	7-Sep-11	1541	0.5 - 1.0' bgs	x			1			
13	44-C	7-Sep-11	1548	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
RES B. Ede	AHI	9-8-11	1948	CBB	Apex

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Cripple Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 09/22/11 16:16

HAHN AND ASSOCIATES, INC.
Environmental Consultants
424 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Ulrich/Jake Klein

Liquid with Sediment Sample: Test Filtrate ____ Test Sediment ____ Test Both ____
Multi-Phase Sample: Test One (which) ____ Test Separately ____ Blade ____

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments
Sample Number Prefix: CRP-110908-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analyses to be Performed: As, Cd, Cr, Pb, Ag (EPA Method 6010)	Rush	Remarks
	14-A	8-Sep-11	905	0.0 - 0.5' bgs	x			1	X		
	14-B	8-Sep-11	915	0.5 - 1.0' bgs	x			1			
	14-BD	8-Sep-11	915	0.5 - 1.0' bgs	x			1			
	14-C	8-Sep-11	925	1.0 - 1.5' bgs	x			1			
	21-A	8-Sep-11	943	0.0 - 0.5' bgs	x			1	X		
	21-B	8-Sep-11	950	0.5 - 1.0' bgs	x			1			
	21-C	8-Sep-11	1002	1.0 - 1.5' bgs	x			1			
	27-A	8-Sep-11	1020	0.0 - 0.5' bgs	x			1	X		
	27-B	8-Sep-11	1027	0.5 - 1.0' bgs	x			1			
	27-C	8-Sep-11	1036	1.0 - 1.5' bgs	x			1			
	28-A	8-Sep-11	1107	0.0 - 0.5' bgs	x			1	X		
	28-B	8-Sep-11	1113	0.5 - 1.0' bgs	x			1			
	28-C	8-Sep-11	1123	1.0 - 1.5' bgs	x			1			
	42-A	8-Sep-11	1308	0.0 - 0.5' bgs	x			1	X		
	36-A	8-Sep-11	1340	0.0 - 0.5' bgs	x			1	X		
	36-B	8-Sep-11	1348	0.5 - 1.0' bgs	x			1			
	36-C	8-Sep-11	1400	1.0 - 1.5' bgs	x			1			
	37-A	8-Sep-11	1425	0.0 - 0.5' bgs	x			1	X		
	37-B	8-Sep-11	1433	0.5 - 1.0' bgs	x			1			
	37-C	8-Sep-11	1440	1.0 - 1.5' bgs	x			1			
	31-A	8-Sep-11	1525	0.0 - 0.5' bgs	x			1	X		
	31-B	8-Sep-11	1516	0.5 - 1.0' bgs	x			1			
	31-BD	8-Sep-11	1516	0.5 - 1.0' bgs	x			1			
	31-C	8-Sep-11	1530	1.0 - 1.5' bgs	x			1			
	32-A	8-Sep-11	1557	0.0 - 0.5' bgs	x			1	X		
	32-B	8-Sep-11	1602	0.5 - 1.0' bgs	x			1			
	32-C	8-Sep-11	1616	1.0 - 1.5' bgs	x			1			
	15-A	8-Sep-11	912	0.0 - 0.5' bgs	x			1	X		
	15-B	8-Sep-11	920	0.5 - 1.0' bgs	x			1			
	15-C	8-Sep-11	927	1.0 - 1.5' bgs	x			1			
	16-A	8-Sep-11	949	0.0 - 0.5' bgs	x			1	X		
	16-B	8-Sep-11	953	0.5 - 1.0' bgs	x			1			
	16-C	8-Sep-11	1001	1.0 - 1.5' bgs	x			1			
	23-A	8-Sep-11	1021	0.0 - 0.5' bgs	x			1	X		
	23-B	8-Sep-11	1027	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Ulr	HAF	9/12/11	1030	Jennifer Sitth	Apex
Relinquished by	Company	Date	Time	Received by	Company
		9/13/11	930	Jennifer Sitth	Apex

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Cripple Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 09/22/11 16:16

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 796-0717 - Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlmann, Chris Kerns

Liquid with Sediment Sample: ____ Test Filtrate ____ Test Sediment ____ Test Both
Multi-Phase Sample: ____ Test One (which) ____ Test Separately ____ Snore

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110909-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Dominic; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analyses to Be Performed: As, Cd, Cr, Pb, Ag (EPA Method 6010)	RUSH	Remarks
	RW01-A	9-Sep-11	915	0.0 - 0.5' bgs	x			1	X		
	RW01-B	9-Sep-11	927	0.5 - 1.0' bgs	x			1			
	RW01-C	9-Sep-11	941	1.0 - 1.5' bgs	x			1			
	RW02-A	9-Sep-11	902	0.0 - 0.5' bgs	x			1	X		
	RW02-B	9-Sep-11	908	0.5 - 1.0' bgs	x			1			
	RW02-C	9-Sep-11	920	1.0 - 1.5' bgs	x			1			
	RW03-A	9-Sep-11	1032	0.0 - 0.5' bgs	x			1	X		
	RW03-B	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
	RW03-BD	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
	RW03-C	9-Sep-11	1055	1.0 - 1.5' bgs	x			1			
	RW04-A	9-Sep-11	945	0.0 - 0.5' bgs	x			1	X		
	RW04-B	9-Sep-11	951	0.5 - 1.0' bgs	x			1			
	RW04-C	9-Sep-11	1008	1.0 - 1.5' bgs	x			1			
	32-A	9-Sep-11	1229	0.0 - 0.5' bgs	x			1	X		
	32-B	9-Sep-11	1236	0.5 - 1.0' bgs	x			1			
	32-C	9-Sep-11	1252	1.0 - 1.5' bgs	x			1			
	33-A	9-Sep-11	1317	0.0 - 0.5' bgs	x			1	X		
	33-B	9-Sep-11	1325	0.5 - 1.0' bgs	x			1			
	33-C	9-Sep-11	1330	1.0 - 1.5' bgs	x			1			
	34-A	9-Sep-11	1408	0.0 - 0.5' bgs	x			1	X		
	34-AD	9-Sep-11	1408	0.0 - 0.5' bgs	x			1			
	34-B	9-Sep-11	1416	0.5 - 1.0' bgs	x			1			
	34-C	9-Sep-11	1422	1.0 - 1.5' bgs	x			1			
	19-A	9-Sep-11	822	0.0 - 0.5' bgs	x			1	X		
	19-B	9-Sep-11	827	0.5 - 1.0' bgs	x			1			
	19-C	9-Sep-11	833	1.0 - 1.5' bgs	x			1			
	16-A	9-Sep-11	849	0.0 - 0.5' bgs	x			1	X		
	16-B	9-Sep-11	857	0.5 - 1.0' bgs	x			1			
	16-C	9-Sep-11	906	1.0 - 1.5' bgs	x			1			
	17-A	9-Sep-11	925	0.0 - 0.5' bgs	x			1	X		
	17-B	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
	17-BD	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
	17-C	9-Sep-11	941	1.0 - 1.5' bgs	x			1			
	11-A	9-Sep-11	1009	0.0 - 0.5' bgs	x			1	X		
	11-B	9-Sep-11	1022	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAF	9/12/11	1030	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company
		9/13/11	930	Jennifer Sutton	Apex

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Cripple Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 09/22/11 16:16

A11F184

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 796-0717 - Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhl/Jane Clair Kahn

Liquid with Sediment Sample — Test Filtrate: ____ Test Sediment: ____ Test Both: ____
Multi-Phase Sample — Test One (which): ____ Test Separately: ____ Shake: ____

Samples Received at 4C (Y or N): ____
Appropriate Containers Used (Y or N): ____
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110912-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	Rush	Remarks
1	24-A	12-Sep-11	855	0.0 - 0.5' bgs	x			1	x		
2	24-B	12-Sep-11	902	0.5 - 1.0' bgs	x			1			
3	24-C	12-Sep-11	907	1.0 - 1.5' bgs	x			1			
4	13-A	12-Sep-11	920	0.0 - 0.5' bgs	x			1	x		
5	13-AD	12-Sep-11	920	0.0 - 0.5' bgs	x			1	x		
6	13-B	12-Sep-11	942	0.5 - 1.0' bgs	x			1			
7	13-C	12-Sep-11	955	1.0 - 1.5' bgs	x			1			
8	02-A	12-Sep-11	1017	0.0 - 0.5' bgs	x			1	x		
9	02-B	12-Sep-11	1035	0.5 - 1.0' bgs	X			1			
10	02-A	12-Sep-11	1049	0.0 - 0.5' bgs	x			1	x		
11	02-B	12-Sep-11	1056	0.5 - 1.0' bgs	x			1			
12	02-C	12-Sep-11	1107	1.0 - 1.5' bgs	x			1			
13	05-A	12-Sep-11	1136	0.0 - 0.5' bgs	x			1	x		
14	05-B	12-Sep-11	1145	0.5 - 1.0' bgs	x			1			
15	05-C	12-Sep-11	1155	1.0 - 1.5' bgs	x			1			
16	498	12-Sep-11	1318	0.0 - 0.5' bgs	x			1	x		
17	485	12-Sep-11	1328	0.0 - 0.5' bgs	x			1	x		
18	478	12-Sep-11	1344	0.0 - 0.5' bgs	x			1	x		
19	478D	12-Sep-11	1344	0.0 - 0.5' bgs	x			1	x		
20	465	12-Sep-11	1358	0.0 - 0.5' bgs	x			1	x		
21	458	12-Sep-11	1408	0.0 - 0.5' bgs	x			1	x		
22	25-A	12-Sep-11	859	0.0 - 0.5' bgs	x			1	x		
23	25-B	12-Sep-11	908	0.5 - 1.0' bgs	x			1			
24	25-C	12-Sep-11	914	1.0 - 1.5' bgs	x			1			
25	12-A	12-Sep-11	937	0.0 - 0.5' bgs	x			1	x		
26	12-B	12-Sep-11	945	0.5 - 1.0' bgs	x			1			
27	12-BD	12-Sep-11	945	0.5 - 1.0' bgs	x			1			
28	12-C	12-Sep-11	955	1.0 - 1.5' bgs	x			1			
29	07-A	12-Sep-11	1014	0.0 - 0.5' bgs	x			1	x		
30	07-B	12-Sep-11	1020	0.5 - 1.0' bgs	x			1			
31	07-C	12-Sep-11	1030	1.0 - 1.5' bgs	x			1			
32	06-A	12-Sep-11	1049	0.0 - 0.5' bgs	x			1	x		
33	06-B	12-Sep-11	1059	0.5 - 1.0' bgs	x			1			
34	06-BD	12-Sep-11	1059	0.5 - 1.0' bgs	x			1			
35	06-C	12-Sep-11	1109	1.0 - 1.5' bgs	x			1			
36	04-A	12-Sep-11	1140	0.0 - 0.5' bgs	x			1	x		
37	04-B	12-Sep-11	1146	0.5 - 1.0' bgs	x			1			
38	29-A	12-Sep-11	1319	0.0 - 0.5' bgs	x			1	x		
39	29-B	12-Sep-11	1329	0.5 - 1.0' bgs	x			1			
40	29-C	12-Sep-11	1333	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAI	9/13/11	1940	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 790-0717 - Fax (503) 227-0209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlhorn-Clair Kohn

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Shake

Samples Reserved at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110908-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	RUSH	Remarks
	23-C	8-Sep-11	1036	1.0 - 1.5' bgs	x			1			
	22-A	8-Sep-11	1057	0.0 - 0.5' bgs	x			1	X		
	22-B	8-Sep-11	1100	0.5 - 1.0' bgs	x			1			
	22-C	8-Sep-11	1112	1.0 - 1.5' bgs	x			1			
	41-A	8-Sep-11	1217	0.0 - 0.5' bgs	x			1	X		
	41-B	8-Sep-11	1226	0.5 - 1.0' bgs	x			1			
	41-C	8-Sep-11	1232	1.0 - 1.5' bgs	x			1			
	35-A	8-Sep-11	1251	0.0 - 0.5' bgs	x			1	X		
	35-B	8-Sep-11	1400	0.5 - 1.0' bgs	x			1			
	35-C	8-Sep-11	1405	1.0 - 1.5' bgs	x			1			
	40-A	8-Sep-11	1433	0.0 - 0.5' bgs	x			1	X		
	40-AD	8-Sep-11	1433	0.0 - 0.5' bgs	x			1	X		
	40-B	8-Sep-11	1440	0.5 - 1.0' bgs	x			1			
	40-C	8-Sep-11	1447	1.0 - 1.5' bgs	x			1			
	29-A	8-Sep-11	1512	0.0 - 0.5' bgs	x			1	X		
	29-B	8-Sep-11	1518	0.5 - 1.0' bgs	x			1			
	29-C	8-Sep-11	1525	1.0 - 1.5' bgs	x			1			
	33-A	8-Sep-11	1541	0.0 - 0.5' bgs	x			1	X		
	33-B	8-Sep-11	1552	0.5 - 1.0' bgs	x			1			
	33-BD	8-Sep-11	1553	0.5 - 1.0' bgs	x			1			
	33-C	8-Sep-11	1551	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAF	9/12/11	1030	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company
		9/13/11	930	Jennifer Sutton	Apex

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

A11I176

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Edo
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlklane-Clair Kern

Liquid with Sediment Sample: ____ Test Filtrate ____ Test Sediment ____ Test Both
Multi-Phase Sample: ____ Test One (Mobile) ____ Test Secondary ____ Share

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments
Sample Number Prefix: CRP-110903-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Edo

Matrix: Soil, Water, Other; Number of Containers; Analyses to be Performed: As, Cd, Cr, Pb, Ag (EPA Method 6010); Water; Remarks

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	Water	Remarks
36	11-C	9-Sep-11	1031	1.0 - 1.5' bgs	x			1			
37	01-A	9-Sep-11	1049	0.0 - 0.5' bgs	x			1	X		
38	01-B	9-Sep-11	1100	0.5 - 1.0' bgs	x			1			
39	01-C	9-Sep-11	1110	1.0 - 1.5' bgs	x			1			
40	08-A	9-Sep-11	1235	0.0 - 0.5' bgs	x			1	X		
41	08-B	9-Sep-11	1245	0.5 - 1.0' bgs	x			1			
42	09-A	9-Sep-11	1319	0.0 - 0.5' bgs	x			1	X		
43	09-B	9-Sep-11	1340	0.5 - 1.0' bgs	x			1			
44	09-BD	9-Sep-11	1340	0.5 - 1.0' bgs	X			1			
45	09-C	9-Sep-11	1350	1.0 - 1.5' bgs	x			1			
46	10-A	9-Sep-11	1412	0.0 - 0.5' bgs	x			1	X		
47	10-B	9-Sep-11	1420	0.5 - 1.0' bgs	x			1			
48	10-C	9-Sep-11	1424	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
B. Uhe	HAI	9/12/11	1030	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Cripple Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 09/22/11 16:16

A11I167

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 799-5717 - Fax (503) 227-0299

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlman-Chris Hess

Liquid with Sediment Sample — Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample — Test dissolved / Test Separately / Share

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110909-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Neuenberg. Invoicing to PGE; attn: Ms. Brandy Domine; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	As, Cd, Cu, Pb, Zn (EPA 6010 or 6020)	Hold	Remarks
1	14-A	9-Sep-11	906	0.0 - 0.5' bgs	x			1	X		
2	14-B	9-Sep-11	915	0.5 - 1.0' bgs	x			1			
3	14-BD	9-Sep-11	915	0.5 - 1.0' bgs	x			1			
4	14-C	9-Sep-11	925	1.0 - 1.5' bgs	x			1			
5	31-A	9-Sep-11	943	0.0 - 0.5' bgs	x			1	X		
6	31-B	9-Sep-11	950	0.5 - 1.0' bgs	x			1			
7	31-C	9-Sep-11	1002	1.0 - 1.5' bgs	x			1			
8	27-A	9-Sep-11	1020	0.0 - 0.5' bgs	x			1	X		
9	27-B	9-Sep-11	1027	0.5 - 1.0' bgs	x			1			
10	27-C	9-Sep-11	1038	1.0 - 1.5' bgs	x			1			
11	28-A	9-Sep-11	1107	0.0 - 0.5' bgs	x			1	X		
12	28-B	9-Sep-11	1113	0.5 - 1.0' bgs	x			1			
13	28-C	9-Sep-11	1123	1.0 - 1.5' bgs	x			1			
14	42-A	9-Sep-11	1300	0.0 - 0.5' bgs	x			1	X		
15	35-A	9-Sep-11	1340	0.0 - 0.5' bgs	x			1	X		
16	35-B	9-Sep-11	1348	0.5 - 1.0' bgs	x			1			
17	35-C	9-Sep-11	1400	1.0 - 1.5' bgs	x			1			
18	37-A	9-Sep-11	1406	0.0 - 0.5' bgs	x			1	X		
19	37-B	9-Sep-11	1413	0.5 - 1.0' bgs	x			1			
20	37-C	9-Sep-11	1416	1.0 - 1.5' bgs	x			1			
21	31-A	9-Sep-11	1506	0.0 - 0.5' bgs	x			1	X		
22	31-B	9-Sep-11	1518	0.5 - 1.0' bgs	x			1			
23	31-BD	9-Sep-11	1518	0.5 - 1.0' bgs	x			1			
24	31-C	9-Sep-11	1526	1.0 - 1.5' bgs	x			1			
25	20-A	9-Sep-11	1557	0.0 - 0.5' bgs	x			1	X		
26	20-B	9-Sep-11	1602	0.5 - 1.0' bgs	x			1			
27	20-C	9-Sep-11	1610	1.0 - 1.5' bgs	x			1			
28	15-A	9-Sep-11	812	0.0 - 0.5' bgs	x			1	X		
29	15-B	9-Sep-11	820	0.5 - 1.0' bgs	x			1			
30	15-C	9-Sep-11	827	1.0 - 1.5' bgs	x			1			
31	16-A	9-Sep-11	948	0.0 - 0.5' bgs	x			1	X		
32	16-B	9-Sep-11	953	0.5 - 1.0' bgs	x			1			
33	16-C	9-Sep-11	1001	1.0 - 1.5' bgs	x			1			
34	23-A	9-Sep-11	1021	0.0 - 0.5' bgs	x			1	X		
35	23-B	9-Sep-11	1027	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAF	9/12/11	1030	Jennifer Smith	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Cripple Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 09/22/11 16:16

A11-176

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Birch Avenue, Suite 203 • Portland OR 97209
(503) 190-8717 • Fax (503) 227-2309

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No:

CHAIN OF CUSTODY
Chain of Custody No:

Project Manager: Rob Eide
Project No: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben McCune/Dan Kerin

Liquid with Sediment Sample — Test Water — Test Sediment — Test Soil
Multi-Phase Sample — Test Gas (ppm) — Test Dehydrate — Strike

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110909-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg, invoicing to PGE; attn: Ms. Brandy Domino; Results to A. Leritz, ft. Edo

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analytes to be Performed: As, Cd, Cu, Pb, Ag (EPA Method 6010)	Rush	Results
1	RW01-A	9-Sep-11	815	0.0 - 0.5' bgs	x			1	X		
2	RW01-B	9-Sep-11	827	0.5 - 1.0' bgs	x			1			
3	RW01-C	9-Sep-11	841	1.0 - 1.5' bgs	x			1			
4	RW02-A	9-Sep-11	902	0.0 - 0.5' bgs	x			1	X		
5	RW02-B	9-Sep-11	906	0.5 - 1.0' bgs	x			1			
6	RW02-C	9-Sep-11	920	1.0 - 1.5' bgs	x			1			
7	RW03-A	9-Sep-11	1032	0.0 - 0.5' bgs	x			1	X		
8	RW03-B	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
9	RW03-BD	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
10	RW03-C	9-Sep-11	1055	1.0 - 1.5' bgs	x			1			
11	RW04-A	9-Sep-11	945	0.0 - 0.5' bgs	x			1	X		
12	RW04-B	9-Sep-11	951	0.5 - 1.0' bgs	x			1			
13	RW04-C	9-Sep-11	1006	1.0 - 1.5' bgs	x			1			
14	32-A	9-Sep-11	1226	0.0 - 0.5' bgs	x			1	X		
15	32-B	9-Sep-11	1236	0.5 - 1.0' bgs	x			1			
16	32-C	9-Sep-11	1252	1.0 - 1.5' bgs	x			1			
17	33-A	9-Sep-11	1317	0.0 - 0.5' bgs	x			1	X		
18	33-B	9-Sep-11	1325	0.5 - 1.0' bgs	x			1			
19	33-C	9-Sep-11	1330	1.0 - 1.5' bgs	x			1			
20	34-A	9-Sep-11	1406	0.0 - 0.5' bgs	x			1	X		
21	34-AD	9-Sep-11	1406	0.0 - 0.5' bgs	x			1			
22	34-B	9-Sep-11	1415	0.5 - 1.0' bgs	x			1			
23	34-C	9-Sep-11	1422	1.0 - 1.5' bgs	x			1			
24	15-A	9-Sep-11	622	0.0 - 0.5' bgs	x			1	X		
25	15-B	9-Sep-11	627	0.5 - 1.0' bgs	x			1			
26	15-C	9-Sep-11	633	1.0 - 1.5' bgs	x			1			
27	16-A	9-Sep-11	643	0.0 - 0.5' bgs	x			1	X		
28	16-B	9-Sep-11	657	0.5 - 1.0' bgs	x			1			
29	16-C	9-Sep-11	705	1.0 - 1.5' bgs	x			1			
30	17-A	9-Sep-11	933	0.0 - 0.5' bgs	x			1	X		
31	17-B	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
32	17-BD	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
33	17-C	9-Sep-11	941	1.0 - 1.5' bgs	x			1			
34	11-A	9-Sep-11	1000	0.0 - 0.5' bgs	x			1	X		
35	11-B	9-Sep-11	1022	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben McCune	HAI	9/12/11	1030	Jennifer Sutta	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/22/11 16:16

A11I167

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 799-5717 • Fax (503) 227-2200

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Edo
Project No: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlmann/Clair Hoole

Used with Sediment Sample: Test Filtrate, Test Sediment, Test Both
Multi-Phase Sample: Test Organics, Test Supernatant, Shake

Samples Received at 0C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110909-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domino; Results to A. Leritz, R. Edo

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Hg, Ag (EPA Method 6010)	RUSH	Remarks
36	22-C	8-Sep-11	1000	1.0 - 1.5' bgs	x			1			
37	22-A	8-Sep-11	1057	0.0 - 0.5' bgs	x			1	X		
38	22-B	8-Sep-11	1100	0.5 - 1.0' bgs	x			1			
39	22-C	8-Sep-11	1112	1.0 - 1.5' bgs	x			1			
40	41-A	8-Sep-11	1317	0.0 - 0.5' bgs	x			1	X		
41	41-B	8-Sep-11	1326	0.5 - 1.0' bgs	x			1			
42	41-C	8-Sep-11	1332	1.0 - 1.5' bgs	x			1			
43	35-A	8-Sep-11	1351	0.0 - 0.5' bgs	x			1	X		
44	35-B	8-Sep-11	1400	0.5 - 1.0' bgs	x			1			
45	35-C	8-Sep-11	1400	1.0 - 1.5' bgs	x			1			
46	40-A	8-Sep-11	1433	0.0 - 0.5' bgs	x			1	X		
47	40-AD	8-Sep-11	1433	0.0 - 0.5' bgs	x			1	X		
48	40-B	8-Sep-11	1440	0.5 - 1.0' bgs	x			1			
49	40-C	8-Sep-11	1447	1.0 - 1.5' bgs	x			1			
50	39-A	8-Sep-11	1512	0.0 - 0.5' bgs	x			1	X		
51	39-B	8-Sep-11	1518	0.5 - 1.0' bgs	x			1			
52	39-C	8-Sep-11	1523	1.0 - 1.5' bgs	x			1			
53	30-A	8-Sep-11	1541	0.0 - 0.5' bgs	x			1	X		
54	30-B	8-Sep-11	1552	0.5 - 1.0' bgs	x			1			
55	30-BD	8-Sep-11	1552	0.5 - 1.0' bgs	x			1			
56	30-C	8-Sep-11	1601	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAF	9/12/11	7030	Jennifer Sutton	Apex
Relinquished by	Company			Received by	Company

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Tuesday, September 20, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I176, which was received by the laboratory on 9/12/2011 at 10:30:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110909-RW01-A	A11I176-01	Soil	09/09/11 08:15	09/12/11 10:30
CRP-110909-RW01-B	A11I176-02	Soil	09/09/11 08:27	09/12/11 10:30
CRP-110909-RW01-C	A11I176-03	Soil	09/09/11 08:41	09/12/11 10:30
CRP-110909-RW02-A	A11I176-04	Soil	09/09/11 09:02	09/12/11 10:30
CRP-110909-RW02-B	A11I176-05	Soil	09/09/11 09:08	09/12/11 10:30
CRP-110909-RW02-C	A11I176-06	Soil	09/09/11 09:20	09/12/11 10:30
CRP-110909-RW03-A	A11I176-07	Soil	09/09/11 10:32	09/12/11 10:30
CRP-110909-RW03-B	A11I176-08	Soil	09/09/11 10:40	09/12/11 10:30
CRP-110909-RW03-BD	A11I176-09	Soil	09/09/11 10:40	09/12/11 10:30
CRP-110909-RW03-C	A11I176-10	Soil	09/09/11 10:55	09/12/11 10:30
CRP-110909-RW04-A	A11I176-11	Soil	09/09/11 09:45	09/12/11 10:30
CRP-110909-RW04-B	A11I176-12	Soil	09/09/11 09:51	09/12/11 10:30
CRP-110909-RW04-C	A11I176-13	Soil	09/09/11 10:08	09/12/11 10:30
CRP-110909-32-A	A11I176-14	Soil	09/09/11 12:28	09/12/11 10:30
CRP-110909-32-B	A11I176-15	Soil	09/09/11 12:38	09/12/11 10:30
CRP-110909-32-C	A11I176-16	Soil	09/09/11 12:52	09/12/11 10:30
CRP-110909-33-A	A11I176-17	Soil	09/09/11 13:17	09/12/11 10:30
CRP-110909-33-B	A11I176-18	Soil	09/09/11 13:25	09/12/11 10:30
CRP-110909-33-C	A11I176-19	Soil	09/09/11 13:30	09/12/11 10:30
CRP-110909-34-A	A11I176-20	Soil	09/09/11 14:08	09/12/11 10:30
CRP-110909-34-AD	A11I176-21	Soil	09/09/11 14:08	09/12/11 10:30
CRP-110909-34-B	A11I176-22	Soil	09/09/11 14:16	09/12/11 10:30
CRP-110909-34-C	A11I176-23	Soil	09/09/11 14:22	09/12/11 10:30
CRP-110909-19-A	A11I176-24	Soil	09/09/11 08:22	09/12/11 10:30
CRP-110909-19-B	A11I176-25	Soil	09/09/11 08:27	09/12/11 10:30
CRP-110909-19-C	A11I176-26	Soil	09/09/11 08:33	09/12/11 10:30
CRP-110909-18-A	A11I176-27	Soil	09/09/11 08:49	09/12/11 10:30
CRP-110909-18-B	A11I176-28	Soil	09/09/11 08:57	09/12/11 10:30
CRP-110909-18-C	A11I176-29	Soil	09/09/11 09:05	09/12/11 10:30
CRP-110909-17-A	A11I176-30	Soil	09/09/11 09:26	09/12/11 10:30
CRP-110909-17-B	A11I176-31	Soil	09/09/11 09:33	09/12/11 10:30
CRP-110909-17-BD	A11I176-32	Soil	09/09/11 09:33	09/12/11 10:30
CRP-110909-17-C	A11I176-33	Soil	09/09/11 09:41	09/12/11 10:30
CRP-110909-11-A	A11I176-34	Soil	09/09/11 10:09	09/12/11 10:30
CRP-110909-11-B	A11I176-35	Soil	09/09/11 10:22	09/12/11 10:30

DRAFT REPORT

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Apex Labs

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110909-11-C	A11I176-36	Soil	09/09/11 10:31	09/12/11 10:30
CRP-110909-01-A	A11I176-37	Soil	09/09/11 10:49	09/12/11 10:30
CRP-110909-01-B	A11I176-38	Soil	09/09/11 11:03	09/12/11 10:30
CRP-110909-01-C	A11I176-39	Soil	09/09/11 11:10	09/12/11 10:30
CRP-110909-08-A	A11I176-40	Soil	09/09/11 12:33	09/12/11 10:30
CRP-110909-08-B	A11I176-41	Soil	09/09/11 12:45	09/12/11 10:30
CRP-110909-09-A	A11I176-42	Soil	09/09/11 13:19	09/12/11 10:30
CRP-110909-09-B	A11I176-43	Soil	09/09/11 13:40	09/12/11 10:30
CRP-110909-09-BD	A11I176-44	Soil	09/09/11 13:40	09/12/11 10:30
CRP-110909-09-C	A11I176-45	Soil	09/09/11 13:50	09/12/11 10:30
CRP-110909-10-A	A11I176-46	Soil	09/09/11 14:12	09/12/11 10:30
CRP-110909-10-B	A11I176-47	Soil	09/09/11 14:20	09/12/11 10:30
CRP-110909-10-C	A11I176-48	Soil	09/09/11 14:24	09/12/11 10:30

Apex Labs

12232 S.W. Garden Place
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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-RW01-A (A11I176-01)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.30	mg/kg dry	10	09/16/11 12:00	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**35.3**	---	2.30	"	"	"	"	
Lead	**10.9**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110909-RW02-A (A11I176-04)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.21	mg/kg dry	10	09/16/11 12:03	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**37.1**	---	2.21	"	"	"	"	
Lead	**28.3**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110909-RW03-A (A11I176-07)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**24.6**	---	2.48	mg/kg dry	10	09/16/11 12:15	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**41.7**	---	2.48	"	"	"	"	
Lead	**60.2**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
CRP-110909-RW04-A (A11I176-11)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	ND	---	2.31	mg/kg dry	10	09/16/11 12:18	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**50.9**	---	2.31	"	"	"	"	
Lead	**28.8**	---	1.15	"	"	"	"	
Silver	ND	---	1.15	"	"	"	"	
CRP-110909-32-A (A11I176-14)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**16.9**	---	2.18	mg/kg dry	10	09/16/11 12:21	EPA 6020	
Cadmium	ND	---	1.09	"	"	"	"	
Chromium	**43.6**	---	2.18	"	"	"	"	
Lead	**183**	---	1.09	"	"	"	"	
Silver	ND	---	1.09	"	"	"	"	
CRP-110909-33-A (A11I176-17)			**Matrix: Soil**		**Batch: 1109218**			
Arsenic	**14.3**	---	2.23	mg/kg dry	10	09/16/11 12:24	EPA 6020	
Cadmium	ND	---	1.11	"	"	"	"	
Chromium	**67.5**	---	2.23	"	"	"	"	
Lead	**230**	---	1.11	"	"	"	"	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-33-A (A11I176-17)			**Matrix: Soil**		**Batch: 1109218**			
Silver	ND	---	1.11	mg/kg dry	10	"	EPA 6020	
CRP-110909-34-A (A11I176-20)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.44	mg/kg dry	10	09/16/11 12:36	EPA 6020	
Cadmium	ND	---	1.22	"	"	"	"	
Chromium	**27.8**	---	2.44	"	"	"	"	
Lead	**29.8**	---	1.22	"	"	"	"	
Silver	ND	---	1.22	"	"	"	"	
CRP-110909-19-A (A11I176-24)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.40	mg/kg dry	10	09/16/11 12:38	EPA 6020	
Cadmium	ND	---	1.20	"	"	"	"	
Chromium	**26.1**	---	2.40	"	"	"	"	
Lead	**28.2**	---	1.20	"	"	"	"	
Silver	ND	---	1.20	"	"	"	"	
CRP-110909-18-A (A11I176-27)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.70	mg/kg dry	10	09/16/11 12:52	EPA 6020	
Cadmium	ND	---	1.35	"	"	"	"	
Chromium	**49.6**	---	2.70	"	"	"	"	
Lead	**12.1**	---	1.35	"	"	"	"	
Silver	ND	---	1.35	"	"	"	"	
CRP-110909-17-A (A11I176-30)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.58	mg/kg dry	10	09/16/11 12:55	EPA 6020	
Cadmium	ND	---	1.29	"	"	"	"	
Chromium	**53.8**	---	2.58	"	"	"	"	
Lead	**13.9**	---	1.29	"	"	"	"	
Silver	ND	---	1.29	"	"	"	"	
CRP-110909-11-A (A11I176-34)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.67	mg/kg dry	10	09/16/11 13:04	EPA 6020	
Cadmium	ND	---	1.34	"	"	"	"	
Chromium	**35.7**	---	2.67	"	"	"	"	
Lead	**26.9**	---	1.34	"	"	"	"	
Silver	ND	---	1.34	"	"	"	"	
CRP-110909-01-A (A11I176-37)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.38	mg/kg dry	10	09/16/11 13:07	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-01-A (A11I176-37)			**Matrix: Soil**		**Batch: 1109233**			
Chromium	**46.7**	---	2.38	mg/kg dry	10	"	EPA 6020	
Lead	**23.4**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110909-08-A (A11I176-40)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**17.1**	---	2.03	mg/kg dry	10	09/16/11 13:10	EPA 6020	
Cadmium	ND	---	1.02	"	"	"	"	
Chromium	**48.1**	---	2.03	"	"	"	"	
Lead	**488**	---	1.02	"	"	"	"	
Silver	ND	---	1.02	"	"	"	"	
CRP-110909-09-A (A11I176-42)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**19.5**	---	2.24	mg/kg dry	10	09/16/11 13:13	EPA 6020	
Cadmium	ND	---	1.12	"	"	"	"	
Chromium	**57.3**	---	2.24	"	"	"	"	
Lead	**428**	---	1.12	"	"	"	"	
Silver	ND	---	1.12	"	"	"	"	
CRP-110909-10-A (A11I176-46)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**8.96**	---	2.65	mg/kg dry	10	09/16/11 14:48	EPA 6020	
Cadmium	ND	---	1.33	"	"	"	"	
Chromium	**55.6**	---	2.65	"	"	"	"	
Lead	**104**	---	1.33	"	"	"	"	
Silver	ND	---	1.33	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-RW01-A (A11I176-01)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW01-B (A11I176-02)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**92.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW01-C (A11I176-03)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**88.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW02-A (A11I176-04)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**95.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW02-B (A11I176-05)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**89.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW02-C (A11I176-06)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW03-A (A11I176-07)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**86.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW03-B (A11I176-08)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW03-BD (A11I176-09)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW03-C (A11I176-10)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**78.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW04-A (A11I176-11)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**84.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-RW04-B (A11I176-12)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**84.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-RW04-C (A11I176-13)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-32-A (A11I176-14)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**93.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-32-B (A11I176-15)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-32-C (A11I176-16)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-33-A (A11I176-17)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.0**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-33-B (A11I176-18)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-33-C (A11I176-19)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-34-A (A11I176-20)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**77.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-34-AD (A11I176-21)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-34-B (A11I176-22)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**78.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-34-C (A11I176-23)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**77.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-19-A (A11I176-24)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-19-B (A11I176-25)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**88.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-19-C (A11I176-26)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-18-A (A11I176-27)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**83.0**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-18-B (A11I176-28)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-18-C (A11I176-29)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-17-A (A11I176-30)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**84.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-17-B (A11I176-31)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-17-BD (A11I176-32)			**Matrix: Soil**		**Batch: 1109271**			

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-17-BD (A11I176-32)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-17-C (A11I176-33)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.1**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-11-A (A11I176-34)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**83.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-11-B (A11I176-35)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-11-C (A11I176-36)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-01-A (A11I176-37)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**87.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-01-B (A11I176-38)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-01-C (A11I176-39)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.6**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-08-A (A11I176-40)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-08-B (A11I176-41)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**84.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-09-A (A11I176-42)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-09-B (A11I176-43)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-09-BD (A11I176-44)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-09-C (A11I176-45)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110909-10-A (A11I176-46)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**81.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110909-10-B (A11I176-47)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110909-10-C (A11I176-48)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109218 - EPA 3051A							**Soil**					
Blank (1109218-BLK1)					Prepared: 09/14/11 07:20		Analyzed: 09/14/11 22:04					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109218-BS1)					Prepared: 09/14/11 07:20		Analyzed: 09/14/11 22:07					
EPA 6020												
Arsenic	50.7	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	50.8	---	1.00	"	"	"	---	102	"	---	---	
Chromium	50.3	---	2.00	"	"	"	---	101	"	---	---	
Lead	51.5	---	1.00	"	"	"	---	103	"	---	---	
Silver	26.1	---	1.00	"	"	25.0	---	104	"	---	---	
Matrix Spike (1109218-MS2)					Prepared: 09/14/11 07:20		Analyzed: 09/16/11 12:27					
QC Source Sample: CRP-110909-33-A (A11I176-17)												
EPA 6020												
Arsenic	70.7	---	2.27	mg/kg dry	10	56.8	14.3	99	75-125%	---	---	
Cadmium	56.9	---	1.13	"	"	"	0.601	99	"	---	---	
Chromium	120	---	2.27	"	"	"	67.5	93	"	---	---	
Lead	266	---	1.13	"	"	"	230	64	"	---	---	Q-03
Silver	29.0	---	1.13	"	"	28.3	0.501	100	"	---	---	
Post Spike (1109218-PS1)					Prepared: 09/16/11 12:44		Analyzed: 09/16/11 12:49					
QC Source Sample: CRP-110909-33-A (A11I176-17)												
EPA 6020												
Lead	906	---		ug/L	10	500	412	99	80-120%		---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109233 - EPA 3051A							**Soil**					
Blank (1109233-BLK1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:30					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109233-BS1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:33					
EPA 6020												
Arsenic	50.4	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	49.0	---	1.00	"	"	"	---	98	"	---	---	
Chromium	49.2	---	2.00	"	"	"	---	98	"	---	---	
Lead	51.2	---	1.00	"	"	"	---	102	"	---	---	
Silver	25.4	---	1.00	"	"	25.0	---	102	"	---	---	
Duplicate (1109233-DUP1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:58					
QC Source Sample: CRP-110909-17-A (A11I176-30)												
EPA 6020												
Arsenic	ND	---	2.62	mg/kg dry	10	---	1.32	---	---	***	40%	
Cadmium	ND	---	1.31	"	"	---	0.517	---	---	***	40%	
Chromium	**47.9**	---	2.62	"	"	---	53.8	---	---	12	40%	
Lead	**14.5**	---	1.31	"	"	---	13.9	---	---	5	40%	
Silver	ND	---	1.31	"	"	---	ND	---	---	---	40%	
Matrix Spike (1109233-MS1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 13:01					
QC Source Sample: CRP-110909-17-A (A11I176-30)												
EPA 6020												
Arsenic	57.5	---	2.46	mg/kg dry	10	61.5	1.32	91	75-125%	---	---	
Cadmium	63.5	---	1.23	"	"	"	0.517	102	"	---	---	
Chromium	103	---	2.46	"	"	"	53.8	79	"	---	---	
Lead	78.2	---	1.23	"	"	"	13.9	105	"	---	---	
Silver	31.6	---	1.23	"	"	30.7	ND	103	"	---	---	

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109227 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109227-DUP8)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110909-34-A (A11I176-20)												
Apex SOP												
% Solids	**78.5**	---	1.00	% by Weight	1	---	77.6	---	---	1	20%	
Duplicate (1109227-DUP9)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110909-32-A (A11I176-14)												
Apex SOP												
% Solids	**93.3**	---	1.00	% by Weight	1	---	93.5	---	---	0.2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109271 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109271-DUP1)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-RW01-C (A11I176-03)												
Apex SOP												
% Solids	**87.5**	---	1.00	% by Weight	1	---	88.6	---	---	1	20%	
Duplicate (1109271-DUP2)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-RW01-B (A11I176-02)												
Apex SOP												
% Solids	**89.6**	---	1.00	% by Weight	1	---	92.0	---	---	3	20%	
Duplicate (1109271-DUP3)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-33-C (A11I176-19)												
Apex SOP												
% Solids	**81.1**	---	1.00	% by Weight	1	---	80.7	---	---	0.5	20%	
Duplicate (1109271-DUP4)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110909-17-BD (A11I176-32)												
Apex SOP												
% Solids	**81.4**	---	1.00	% by Weight	1	---	81.7	---	---	0.4	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1109218							
A11I176-01	Soil	EPA 6020	09/09/11 08:15	09/14/11 07:20	0.482g/50mL	0.5g/50mL	1.04
A11I176-04	Soil	EPA 6020	09/09/11 09:02	09/14/11 07:20	0.474g/50mL	0.5g/50mL	1.05
A11I176-07	Soil	EPA 6020	09/09/11 10:32	09/14/11 07:20	0.466g/50mL	0.5g/50mL	1.07
A11I176-11	Soil	EPA 6020	09/09/11 09:45	09/14/11 07:20	0.511g/50mL	0.5g/50mL	0.98
A11I176-14	Soil	EPA 6020	09/09/11 12:28	09/14/11 07:20	0.491g/50mL	0.5g/50mL	1.02
A11I176-17	Soil	EPA 6020	09/09/11 13:17	09/14/11 07:20	0.488g/50mL	0.5g/50mL	1.02
Batch: 1109233							
A11I176-20	Soil	EPA 6020	09/09/11 14:08	09/14/11 12:49	0.529g/50mL	0.5g/50mL	0.95
A11I176-24	Soil	EPA 6020	09/09/11 08:22	09/14/11 12:49	0.45g/50mL	0.5g/50mL	1.11
A11I176-27	Soil	EPA 6020	09/09/11 08:49	09/14/11 12:49	0.447g/50mL	0.5g/50mL	1.12
A11I176-30	Soil	EPA 6020	09/09/11 09:26	09/14/11 12:49	0.456g/50mL	0.5g/50mL	1.10
A11I176-34	Soil	EPA 6020	09/09/11 10:09	09/14/11 12:49	0.448g/50mL	0.5g/50mL	1.12
A11I176-37	Soil	EPA 6020	09/09/11 10:49	09/14/11 12:49	0.482g/50mL	0.5g/50mL	1.04
A11I176-40	Soil	EPA 6020	09/09/11 12:33	09/14/11 12:49	0.531g/50mL	0.5g/50mL	0.94
A11I176-42	Soil	EPA 6020	09/09/11 13:19	09/14/11 12:49	0.482g/50mL	0.5g/50mL	1.04
A11I176-46	Soil	EPA 6020	09/09/11 14:12	09/14/11 12:49	0.464g/50mL	0.5g/50mL	1.08

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

Notes and Definitions

Qualifiers:

Q-03	Percent recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlmann, Clair Kelly

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Dish
Multi-Phase Sample: Test Oil (which) / Test Separatory / Snore

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110909-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	RUSH	Remarks
	RW01-A	9-Sep-11	915	0.0 - 0.5' bgs	x			1	X		
	RW01-B	9-Sep-11	927	0.5 - 1.0' bgs	x			1			
	RW01-C	9-Sep-11	941	1.0 - 1.5' bgs	x			1			
	RW02-A	9-Sep-11	902	0.0 - 0.5' bgs	x			1	X		
	RW02-B	9-Sep-11	908	0.5 - 1.0' bgs	x			1			
	RW02-C	9-Sep-11	933	1.0 - 1.5' bgs	x			1			
	RW03-A	9-Sep-11	1032	0.0 - 0.5' bgs	x			1	X		
	RW03-B	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
	RW03-BD	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
	RW03-C	9-Sep-11	1056	1.0 - 1.5' bgs	x			1			
	RW04-A	9-Sep-11	945	0.0 - 0.5' bgs	x			1	X		
	RW04-B	9-Sep-11	951	0.5 - 1.0' bgs	x			1			
	RW04-C	9-Sep-11	1000	1.0 - 1.5' bgs	x			1			
	32-A	9-Sep-11	1229	0.0 - 0.5' bgs	x			1	X		
	32-B	9-Sep-11	1236	0.5 - 1.0' bgs	x			1			
	32-C	9-Sep-11	1252	1.0 - 1.5' bgs	x			1			
	33-A	9-Sep-11	1317	0.0 - 0.5' bgs	x			1	X		
	33-B	9-Sep-11	1325	0.5 - 1.0' bgs	x			1			
	33-C	9-Sep-11	1330	1.0 - 1.5' bgs	x			1			
	34-A	9-Sep-11	1408	0.0 - 0.5' bgs	x			1	X		
	34-AD	9-Sep-11	1408	0.0 - 0.5' bgs	x			1			
	34-B	9-Sep-11	1416	0.5 - 1.0' bgs	x			1			
	34-C	9-Sep-11	1422	1.0 - 1.5' bgs	x			1			
	19-A	9-Sep-11	822	0.0 - 0.5' bgs	x			1	X		
	19-B	9-Sep-11	827	0.5 - 1.0' bgs	x			1			
	19-C	9-Sep-11	833	1.0 - 1.5' bgs	x			1			
	18-A	9-Sep-11	849	0.0 - 0.5' bgs	x			1	X		
	18-B	9-Sep-11	857	0.5 - 1.0' bgs	x			1			
	18-C	9-Sep-11	906	1.0 - 1.5' bgs	x			1			
	17-A	9-Sep-11	925	0.0 - 0.5' bgs	x			1	X		
	17-B	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
	17-BD	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
	17-C	9-Sep-11	941	1.0 - 1.5' bgs	x			1			
	11-A	9-Sep-11	1009	0.0 - 0.5' bgs	x			1	X		
	11-B	9-Sep-11	1022	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAI	9/12/11	1030	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company
		9/13/11	930	Jennifer Sutton	Apex

DRAFT REPORT

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Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 13:49

A11I176

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhlklane-Clair Kern

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (Mixed) / Test Separately / Share

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments
Sample Number Prefix: CRP-110903-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	As, Cd, Cr, Pb, Ag (EPA Method 6010)	Water	Remarks
36	11-C	9-Sep-11	1031	1.0 - 1.5' bgs	x			1			
37	01-A	9-Sep-11	1049	0.0 - 0.5' bgs	x			1	X		
38	01-B	9-Sep-11	1100	0.5 - 1.0' bgs	x			1			
39	01-C	9-Sep-11	1110	1.0 - 1.5' bgs	x			1			
40	08-A	9-Sep-11	1235	0.0 - 0.5' bgs	x			1	X		
41	08-B	9-Sep-11	1245	0.5 - 1.0' bgs	x			1			
42	09-A	9-Sep-11	1319	0.0 - 0.5' bgs	x			1	X		
43	09-B	9-Sep-11	1340	0.5 - 1.0' bgs	x			1			
44	09-BD	9-Sep-11	1340	0.5 - 1.0' bgs	X			1			
45	09-C	9-Sep-11	1350	1.0 - 1.5' bgs	x			1			
46	10-A	9-Sep-11	1412	0.0 - 0.5' bgs	x			1	X		
47	10-B	9-Sep-11	1420	0.5 - 1.0' bgs	x			1			
48	10-C	9-Sep-11	1424	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
B. Uhe	HAI	9/12/11	1030	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
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Bridgewater Group 4500 SW Kruse Way; Suite 110 Lake Oswego, OR 97035	Project: **PGE-Cripple Creek Trestle** Project Number: 7985 Project Manager: Aaron Leritz	**Reported:** 09/20/11 13:49

A11-176

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Birch Avenue, Suite 203 • Portland OR 97209
(503) 190-8717 • Fax (503) 227-2309

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No:

CHAIN OF CUSTODY
Chain of Custody No:

Project Manager: Rob Ede
Project No: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben McCune/Dan Kerin

Liquid with Sediment Sample — Test Water: ____ Test Sediment: ____ Test Both: ____
Multi-Phase Sample — Test Gas (ppm): ____ Test Separately: ____ Mixed: ____

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110909-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg, invoicing to PGE; attn: Ms. Brandy Domino; Results to A. Leritz, ft. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	Analytes to be Performed: As, Cd, Cu, Pb, Ag (EPA Method 6010)	Rush	Remarks
1	RW01-A	9-Sep-11	815	0.0 - 0.5' bgs	x			1	X		
2	RW01-B	9-Sep-11	827	0.5 - 1.0' bgs	x			1			
3	RW01-C	9-Sep-11	841	1.0 - 1.5' bgs	x			1			
4	RW02-A	9-Sep-11	902	0.0 - 0.5' bgs	x			1	X		
5	RW02-B	9-Sep-11	906	0.5 - 1.0' bgs	x			1			
6	RW02-C	9-Sep-11	920	1.0 - 1.5' bgs	x			1			
7	RW03-A	9-Sep-11	1032	0.0 - 0.5' bgs	x			1	X		
8	RW03-B	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
9	RW03-BD	9-Sep-11	1040	0.5 - 1.0' bgs	x			1			
10	RW03-C	9-Sep-11	1055	1.0 - 1.5' bgs	x			1			
11	RW04-A	9-Sep-11	945	0.0 - 0.5' bgs	x			1	X		
12	RW04-B	9-Sep-11	951	0.5 - 1.0' bgs	x			1			
13	RW04-C	9-Sep-11	1006	1.0 - 1.5' bgs	x			1			
14	32-A	9-Sep-11	1226	0.0 - 0.5' bgs	x			1	X		
15	32-B	9-Sep-11	1236	0.5 - 1.0' bgs	x			1			
16	32-C	9-Sep-11	1252	1.0 - 1.5' bgs	x			1			
17	33-A	9-Sep-11	1317	0.0 - 0.5' bgs	x			1	X		
18	33-B	9-Sep-11	1325	0.5 - 1.0' bgs	x			1			
19	33-C	9-Sep-11	1330	1.0 - 1.5' bgs	x			1			
20	34-A	9-Sep-11	1406	0.0 - 0.5' bgs	x			1	X		
21	34-AD	9-Sep-11	1406	0.0 - 0.5' bgs	x			1			
22	34-B	9-Sep-11	1416	0.5 - 1.0' bgs	x			1			
23	34-C	9-Sep-11	1422	1.0 - 1.5' bgs	x			1			
24	15-A	9-Sep-11	822	0.0 - 0.5' bgs	x			1	X		
25	15-B	9-Sep-11	827	0.5 - 1.0' bgs	x			1			
26	15-C	9-Sep-11	833	1.0 - 1.5' bgs	x			1			
27	16-A	9-Sep-11	843	0.0 - 0.5' bgs	x			1	X		
28	16-B	9-Sep-11	857	0.5 - 1.0' bgs	x			1			
29	16-C	9-Sep-11	905	1.0 - 1.5' bgs	x			1			
30	17-A	9-Sep-11	933	0.0 - 0.5' bgs	x			1	X		
31	17-B	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
32	17-BD	9-Sep-11	933	0.5 - 1.0' bgs	x			1			
33	17-C	9-Sep-11	941	1.0 - 1.5' bgs	x			1			
34	11-A	9-Sep-11	1000	0.0 - 0.5' bgs	x			1	X		
35	11-B	9-Sep-11	1022	0.5 - 1.0' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben McCune	HAI	9/12/11	1030	Jennifer Sutta	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
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503-718-2323 Phone
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Tuesday, September 20, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I184, which was received by the laboratory on 9/13/2011 at 9:40:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110912-24-A	A11I184-01	Soil	09/12/11 08:55	09/13/11 09:40
CRP-110912-24-B	A11I184-02	Soil	09/12/11 09:02	09/13/11 09:40
CRP-110912-24-C	A11I184-03	Soil	09/12/11 09:07	09/13/11 09:40
CRP-110912-13-A	A11I184-04	Soil	09/12/11 09:28	09/13/11 09:40
CRP-110912-13-AD	A11I184-05	Soil	09/12/11 09:28	09/13/11 09:40
CRP-110912-13-B	A11I184-06	Soil	09/12/11 09:42	09/13/11 09:40
CRP-110912-13-C	A11I184-07	Soil	09/12/11 09:55	09/13/11 09:40
CRP-110912-03-A	A11I184-08	Soil	09/12/11 10:17	09/13/11 09:40
CRP-110912-03-B	A11I184-09	Soil	09/12/11 10:35	09/13/11 09:40
CRP-110912-02-A	A11I184-10	Soil	09/12/11 10:46	09/13/11 09:40
CRP-110912-02-B	A11I184-11	Soil	09/12/11 10:58	09/13/11 09:40
CRP-110912-02-C	A11I184-12	Soil	09/12/11 11:07	09/13/11 09:40
CRP-110912-05-A	A11I184-13	Soil	09/12/11 11:36	09/13/11 09:40
CRP-110912-05-B	A11I184-14	Soil	09/12/11 11:46	09/13/11 09:40
CRP-110912-05-C	A11I184-15	Soil	09/12/11 11:55	09/13/11 09:40
CRP-110912-49S	A11I184-16	Soil	09/12/11 13:18	09/13/11 09:40
CRP-110912-48S	A11I184-17	Soil	09/12/11 13:28	09/13/11 09:40
CRP-110912-47S	A11I184-18	Soil	09/12/11 13:44	09/13/11 09:40
CRP-110912-47SD	A11I184-19	Soil	09/12/11 13:44	09/13/11 09:40
CRP-110912-46S	A11I184-20	Soil	09/12/11 13:56	09/13/11 09:40
CRP-110912-45S	A11I184-21	Soil	09/12/11 14:08	09/13/11 09:40
CRP-110912-25-A	A11I184-22	Soil	09/12/11 08:59	09/13/11 09:40
CRP-110912-25-B	A11I184-23	Soil	09/12/11 09:08	09/13/11 09:40
CRP-110912-25-C	A11I184-24	Soil	09/12/11 09:14	09/13/11 09:40
CRP-110912-12-A	A11I184-25	Soil	09/12/11 09:37	09/13/11 09:40
CRP-110912-12-B	A11I184-26	Soil	09/12/11 09:45	09/13/11 09:40
CRP-110912-12-BD	A11I184-27	Soil	09/12/11 09:45	09/13/11 09:40
CRP-110912-12-C	A11I184-28	Soil	09/12/11 09:55	09/13/11 09:40
CRP-110912-07-A	A11I184-29	Soil	09/12/11 10:14	09/13/11 09:40
CRP-110912-07-B	A11I184-30	Soil	09/12/11 10:20	09/13/11 09:40
CRP-110912-07-C	A11I184-31	Soil	09/12/11 10:30	09/13/11 09:40
CRP-110912-06-A	A11I184-32	Soil	09/12/11 10:49	09/13/11 09:40
CRP-110912-06-B	A11I184-33	Soil	09/12/11 10:59	09/13/11 09:40
CRP-110912-06-BD	A11I184-34	Soil	09/12/11 10:59	09/13/11 09:40
CRP-110912-06-C	A11I184-35	Soil	09/12/11 11:09	09/13/11 09:40

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110912-04-A	A11I184-36	Soil	09/12/11 11:40	09/13/11 09:40
CRP-110912-04-B	A11I184-37	Soil	09/12/11 11:46	09/13/11 09:40
CRP-110912-26-A	A11I184-38	Soil	09/12/11 13:19	09/13/11 09:40
CRP-110912-26-B	A11I184-39	Soil	09/12/11 13:29	09/13/11 09:40
CRP-110912-26-C	A11I184-40	Soil	09/12/11 13:33	09/13/11 09:40

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-24-A (A11I184-01)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.48	mg/kg dry	10	09/16/11 13:28	EPA 6020	
Cadmium	ND	---	1.24	"	"	"	"	
Chromium	**55.4**	---	2.48	"	"	"	"	
Lead	**15.6**	---	1.24	"	"	"	"	
Silver	ND	---	1.24	"	"	"	"	
CRP-110912-13-A (A11I184-04)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**9.91**	---	2.36	mg/kg dry	10	09/16/11 13:31	EPA 6020	
Cadmium	ND	---	1.18	"	"	"	"	
Chromium	**32.4**	---	2.36	"	"	"	"	
Lead	**225**	---	1.18	"	"	"	"	
Silver	ND	---	1.18	"	"	"	"	
CRP-110912-13-AD (A11I184-05)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**8.65**	---	2.49	mg/kg dry	10	09/16/11 13:33	EPA 6020	
Cadmium	ND	---	1.25	"	"	"	"	
Chromium	**29.4**	---	2.49	"	"	"	"	
Lead	**275**	---	1.25	"	"	"	"	
Silver	ND	---	1.25	"	"	"	"	
CRP-110912-03-A (A11I184-08)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**3.99**	---	2.43	mg/kg dry	10	09/16/11 13:37	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**24.4**	---	2.43	"	"	"	"	
Lead	**26.0**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	
CRP-110912-02-A (A11I184-10)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**7.91**	---	2.39	mg/kg dry	10	09/16/11 13:40	EPA 6020	
Cadmium	ND	---	1.19	"	"	"	"	
Chromium	**50.1**	---	2.39	"	"	"	"	
Lead	**171**	---	1.19	"	"	"	"	
Silver	ND	---	1.19	"	"	"	"	
CRP-110912-05-A (A11I184-13)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	**23.3**	---	2.29	mg/kg dry	10	09/16/11 13:43	EPA 6020	
Cadmium	ND	---	1.15	"	"	"	"	
Chromium	**57.7**	---	2.29	"	"	"	"	
Lead	**221**	---	1.15	"	"	"	"	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-05-A (A11I184-13)			**Matrix: Soil**		**Batch: 1109233**			
Silver	ND	---	1.15	mg/kg dry	10	"	EPA 6020	
CRP-110912-49S (A11I184-16)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.62	mg/kg dry	10	09/16/11 13:46	EPA 6020	
Cadmium	ND	---	1.31	"	"	"	"	
Chromium	**11.6**	---	2.62	"	"	"	"	
Lead	**4.24**	---	1.31	"	"	"	"	
Silver	ND	---	1.31	"	"	"	"	
CRP-110912-48S (A11I184-17)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.87	mg/kg dry	10	09/16/11 13:49	EPA 6020	
Cadmium	ND	---	1.44	"	"	"	"	
Chromium	**10.7**	---	2.87	"	"	"	"	
Lead	**2.63**	---	1.44	"	"	"	"	
Silver	ND	---	1.44	"	"	"	"	
CRP-110912-47S (A11I184-18)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.83	mg/kg dry	10	09/16/11 13:52	EPA 6020	
Cadmium	ND	---	1.41	"	"	"	"	
Chromium	**8.46**	---	2.83	"	"	"	"	
Lead	**3.31**	---	1.41	"	"	"	"	
Silver	ND	---	1.41	"	"	"	"	
CRP-110912-47SD (A11I184-19)			**Matrix: Soil**		**Batch: 1109233**			
Arsenic	ND	---	2.34	mg/kg dry	10	09/16/11 14:04	EPA 6020	
Cadmium	ND	---	1.17	"	"	"	"	
Chromium	**7.99**	---	2.34	"	"	"	"	
Lead	**2.49**	---	1.17	"	"	"	"	
Silver	ND	---	1.17	"	"	"	"	
CRP-110912-46S (A11I184-20)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.11	mg/kg dry	10	09/19/11 16:40	EPA 6020	
Cadmium	ND	---	1.05	"	"	"	"	
Chromium	**7.65**	---	2.11	"	"	"	"	
Lead	**2.47**	---	1.05	"	"	"	"	
Silver	ND	---	1.05	"	"	"	"	
CRP-110912-45S (A11I184-21)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.31	mg/kg dry	10	09/19/11 16:43	EPA 6020	
Cadmium	ND	---	1.16	"	"	"	"	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-45S (A11I184-21)			**Matrix: Soil**		**Batch: 1109238**			
Chromium	**5.41**	---	2.31	mg/kg dry	10	"	EPA 6020	
Lead	**2.24**	---	1.16	"	"	"	"	
Silver	ND	---	1.16	"	"	"	"	
CRP-110912-25-A (A11I184-22)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.27	mg/kg dry	10	09/19/11 16:46	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**18.5**	---	2.27	"	"	"	"	
Lead	**38.8**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110912-12-A (A11I184-25)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	**5.42**	---	2.19	mg/kg dry	10	09/19/11 16:49	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**21.6**	---	2.19	"	"	"	"	
Lead	**422**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110912-07-A (A11I184-29)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	**3.41**	---	2.26	mg/kg dry	10	09/19/11 16:52	EPA 6020	
Cadmium	ND	---	1.13	"	"	"	"	
Chromium	**18.9**	---	2.26	"	"	"	"	
Lead	**175**	---	1.13	"	"	"	"	
Silver	ND	---	1.13	"	"	"	"	
CRP-110912-06-A (A11I184-32)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	**14.9**	---	2.09	mg/kg dry	10	09/19/11 16:55	EPA 6020	
Cadmium	ND	---	1.05	"	"	"	"	
Chromium	**45.4**	---	2.09	"	"	"	"	
Lead	**520**	---	1.05	"	"	"	"	
Silver	ND	---	1.05	"	"	"	"	
CRP-110912-04-A (A11I184-36)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.20	mg/kg dry	10	09/19/11 16:58	EPA 6020	
Cadmium	ND	---	1.10	"	"	"	"	
Chromium	**11.8**	---	2.20	"	"	"	"	
Lead	**32.3**	---	1.10	"	"	"	"	
Silver	ND	---	1.10	"	"	"	"	
CRP-110912-26-A (A11I184-38)			**Matrix: Soil**		**Batch: 1109238**			

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-26-A (A11I184-38)			**Matrix: Soil**		**Batch: 1109238**			
Arsenic	ND	---	2.41	mg/kg dry	10	09/19/11 17:01	EPA 6020	
Cadmium	ND	---	1.21	"	"	"	"	
Chromium	**18.8**	---	2.41	"	"	"	"	
Lead	**8.96**	---	1.21	"	"	"	"	
Silver	ND	---	1.21	"	"	"	"	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-24-A (A11I184-01)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**82.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-24-B (A11I184-02)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-24-C (A11I184-03)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**81.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-13-A (A11I184-04)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**91.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-13-AD (A11I184-05)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-13-B (A11I184-06)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-13-C (A11I184-07)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**89.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-03-A (A11I184-08)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**93.7**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-03-B (A11I184-09)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**90.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-02-A (A11I184-10)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.5**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-02-B (A11I184-11)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**79.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-02-C (A11I184-12)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**80.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-05-A (A11I184-13)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**93.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-05-B (A11I184-14)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**84.4**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-05-C (A11I184-15)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**82.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-49S (A11I184-16)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**78.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-48S (A11I184-17)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**78.1**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-47S (A11I184-18)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**77.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-47SD (A11I184-19)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**74.6**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-46S (A11I184-20)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**91.1**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-45S (A11I184-21)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**82.8**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-25-A (A11I184-22)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**90.1**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-25-B (A11I184-23)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**89.2**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-25-C (A11I184-24)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-12-A (A11I184-25)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**89.7**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-12-B (A11I184-26)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.9**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-12-BD (A11I184-27)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-12-C (A11I184-28)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-07-A (A11I184-29)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**89.2**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-07-B (A11I184-30)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**91.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-07-C (A11I184-31)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-06-A (A11I184-32)			**Matrix: Soil**		**Batch: 1109227**			

DRAFT REPORT

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Apex Labs

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110912-06-A (A11I184-32)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**92.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-06-B (A11I184-33)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.5**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-06-BD (A11I184-34)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**85.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-06-C (A11I184-35)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**83.7**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-04-A (A11I184-36)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**91.3**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-04-B (A11I184-37)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**91.3**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-26-A (A11I184-38)			**Matrix: Soil**		**Batch: 1109227**			
% Solids	**83.9**	---	1.00	% by Weight	1	09/15/11 10:20	Apex SOP	
CRP-110912-26-B (A11I184-39)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**86.8**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	
CRP-110912-26-C (A11I184-40)			**Matrix: Soil**		**Batch: 1109271**			
% Solids	**87.0**	---	1.00	% by Weight	1	09/19/11 10:26	Apex SOP	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109233 - EPA 3051A							**Soil**					
Blank (1109233-BLK1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:30					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109233-BS1)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 12:33					
EPA 6020												
Arsenic	50.4	---	2.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	49.0	---	1.00	"	"	"	---	98	"	---	---	
Chromium	49.2	---	2.00	"	"	"	---	98	"	---	---	
Lead	51.2	---	1.00	"	"	"	---	102	"	---	---	
Silver	25.4	---	1.00	"	"	25.0	---	102	"	---	---	
Matrix Spike (1109233-MS2)					Prepared: 09/14/11 12:49		Analyzed: 09/16/11 14:07					
QC Source Sample: CRP-110912-47SD (A11I184-19)												
EPA 6020												
Arsenic	77.4	---	3.03	mg/kg dry	10	75.7	0.409	102	75-125%	---	---	
Cadmium	76.4	---	1.51	"	"	"	0.187	101	"	---	---	
Chromium	88.6	---	3.03	"	"	"	7.99	106	"	---	---	
Lead	81.0	---	1.51	"	"	"	2.49	104	"	---	---	
Silver	39.1	---	1.51	"	"	37.8	ND	103	"	---	---	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109238 - EPA 3051A							**Soil**					
Blank (1109238-BLK1)					Prepared: 09/14/11 14:39		Analyzed: 09/14/11 22:16					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	1.00	"	"	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
Silver	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1109238-BS1)					Prepared: 09/14/11 14:39		Analyzed: 09/14/11 22:19					
EPA 6020												
Arsenic	48.7	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Cadmium	49.5	---	1.00	"	"	"	---	99	"	---	---	
Chromium	48.5	---	2.00	"	"	"	---	97	"	---	---	
Lead	50.4	---	1.00	"	"	"	---	101	"	---	---	
Silver	25.5	---	1.00	"	"	25.0	---	102	"	---	---	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1109227 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109227-DUP5)					Prepared: 09/14/11 10:41		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110912-07-A (A11I184-29)												
Apex SOP												
% Solids	**88.7**	---	1.00	% by Weight	1	---	89.2	---	---	0.6	20%	
Duplicate (1109227-DUP6)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110912-26-A (A11I184-38)												
Apex SOP												
% Solids	**85.3**	---	1.00	% by Weight	1	---	83.9	---	---	2	20%	
Duplicate (1109227-DUP7)					Prepared: 09/14/11 11:13		Analyzed: 09/15/11 10:20					
QC Source Sample: CRP-110912-06-A (A11I184-32)												
Apex SOP												
% Solids	**93.2**	---	1.00	% by Weight	1	---	92.9	---	---	0.3	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 1109271 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1109271-DUP5)					Prepared: 09/16/11 10:24		Analyzed: 09/19/11 10:26					
QC Source Sample: CRP-110912-06-BD (A11I184-34)												
Apex SOP												
% Solids	**85.4**	---	1.00	% by Weight	1	---	85.3	---	---	0.1	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1109233							
A11I184-01	Soil	EPA 6020	09/12/11 08:55	09/14/11 12:49	0.486g/50mL	0.5g/50mL	1.03
A11I184-04	Soil	EPA 6020	09/12/11 09:28	09/14/11 12:49	0.462g/50mL	0.5g/50mL	1.08
A11I184-05	Soil	EPA 6020	09/12/11 09:28	09/14/11 12:49	0.444g/50mL	0.5g/50mL	1.13
A11I184-08	Soil	EPA 6020	09/12/11 10:17	09/14/11 12:49	0.44g/50mL	0.5g/50mL	1.14
A11I184-10	Soil	EPA 6020	09/12/11 10:46	09/14/11 12:49	0.463g/50mL	0.5g/50mL	1.08
A11I184-13	Soil	EPA 6020	09/12/11 11:36	09/14/11 12:49	0.468g/50mL	0.5g/50mL	1.07
A11I184-16	Soil	EPA 6020	09/12/11 13:18	09/14/11 12:49	0.489g/50mL	0.5g/50mL	1.02
A11I184-17	Soil	EPA 6020	09/12/11 13:28	09/14/11 12:49	0.446g/50mL	0.5g/50mL	1.12
A11I184-18	Soil	EPA 6020	09/12/11 13:44	09/14/11 12:49	0.458g/50mL	0.5g/50mL	1.09
A11I184-19	Soil	EPA 6020	09/12/11 13:44	09/14/11 12:49	0.573g/50mL	0.5g/50mL	0.87
Batch: 1109238							
A11I184-20	Soil	EPA 6020	09/12/11 13:56	09/14/11 14:39	0.521g/50mL	0.5g/50mL	0.96
A11I184-21	Soil	EPA 6020	09/12/11 14:08	09/14/11 14:39	0.522g/50mL	0.5g/50mL	0.96
A11I184-22	Soil	EPA 6020	09/12/11 08:59	09/14/11 14:39	0.49g/50mL	0.5g/50mL	1.02
A11I184-25	Soil	EPA 6020	09/12/11 09:37	09/14/11 14:39	0.508g/50mL	0.5g/50mL	0.98
A11I184-29	Soil	EPA 6020	09/12/11 10:14	09/14/11 14:39	0.495g/50mL	0.5g/50mL	1.01
A11I184-32	Soil	EPA 6020	09/12/11 10:49	09/14/11 14:39	0.514g/50mL	0.5g/50mL	0.97
A11I184-36	Soil	EPA 6020	09/12/11 11:40	09/14/11 14:39	0.497g/50mL	0.5g/50mL	1.01
A11I184-38	Soil	EPA 6020	09/12/11 13:19	09/14/11 14:39	0.494g/50mL	0.5g/50mL	1.01

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

Notes and Definitions

Qualifiers:

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	09/20/11 14:03

A11F184

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 - Portland OR 97209
(503) 796-0717 - Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.:

CHAIN OF CUSTODY
Chain of Custody No.:

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben Uhl/Jane-Clair Hahn

Liquid with Sediment Sample: Test Filtrate, Test Sediment, Test Both
Multi-Phase Sample: Test One (which), Test Separately, Grab

Samples Received at 4C (Y or N):
Appropriate Containers Used (Y or N):
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110912-
All results 6 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	As, Cd, Cr, Pb, Hg (EPA Method 6020)	Rush	Remarks
1	24-A	12-Sep-11	855	0.0 - 0.5' bgs	x			1	x		
2	24-B	12-Sep-11	902	0.5 - 1.0' bgs	x			1			
3	24-C	12-Sep-11	907	1.0 - 1.5' bgs	x			1			
4	13-A	12-Sep-11	920	0.0 - 0.5' bgs	x			1	x		
5	13-AD	12-Sep-11	920	0.0 - 0.5' bgs	x			1	x		
6	13-B	12-Sep-11	942	0.5 - 1.0' bgs	x			1			
7	13-C	12-Sep-11	955	1.0 - 1.5' bgs	x			1			
8	03-A	12-Sep-11	1017	0.0 - 0.5' bgs	x			1	x		
9	03-B	12-Sep-11	1035	0.5 - 1.0' bgs	X			1			
10	03-A	12-Sep-11	1046	0.0 - 0.5' bgs	x			1	x		
11	03-B	12-Sep-11	1056	0.5 - 1.0' bgs	x			1			
12	03-C	12-Sep-11	1107	1.0 - 1.5' bgs	x			1			
13	05-A	12-Sep-11	1136	0.0 - 0.5' bgs	x			1	x		
14	05-B	12-Sep-11	1145	0.5 - 1.0' bgs	x			1			
15	05-C	12-Sep-11	1155	1.0 - 1.5' bgs	x			1			
16	4RB	12-Sep-11	1318	0.0 - 0.5' bgs	x			1	x		
17	4RS	12-Sep-11	1328	0.0 - 0.5' bgs	x			1	x		
18	4TB	12-Sep-11	1344	0.0 - 0.5' bgs	x			1	x		
19	4TBD	12-Sep-11	1344	0.0 - 0.5' bgs	x			1	x		
20	4BS	12-Sep-11	1358	0.0 - 0.5' bgs	x			1	x		
21	4BB	12-Sep-11	1408	0.0 - 0.5' bgs	x			1	x		
22	25-A	12-Sep-11	859	0.0 - 0.5' bgs	x			1	x		
23	25-B	12-Sep-11	908	0.5 - 1.0' bgs	x			1			
24	25-C	12-Sep-11	914	1.0 - 1.5' bgs	x			1			
25	12-A	12-Sep-11	937	0.0 - 0.5' bgs	x			1	x		
26	12-B	12-Sep-11	945	0.5 - 1.0' bgs	x			1			
27	12-BD	12-Sep-11	945	0.5 - 1.0' bgs	x			1			
28	12-C	12-Sep-11	955	1.0 - 1.5' bgs	x			1			
29	07-A	12-Sep-11	1014	0.0 - 0.5' bgs	x			1	x		
30	07-B	12-Sep-11	1020	0.5 - 1.0' bgs	x			1			
31	07-C	12-Sep-11	1030	1.0 - 1.5' bgs	x			1			
32	06-A	12-Sep-11	1049	0.0 - 0.5' bgs	x			1	x		
33	06-B	12-Sep-11	1059	0.5 - 1.0' bgs	x			1			
34	06-BD	12-Sep-11	1059	0.5 - 1.0' bgs	x			1			
35	06-C	12-Sep-11	1109	1.0 - 1.5' bgs	x			1			
36	04-A	12-Sep-11	1140	0.0 - 0.5' bgs	x			1	x		
37	04-B	12-Sep-11	1146	0.5 - 1.0' bgs	x			1			
38	26-A	12-Sep-11	1319	0.0 - 0.5' bgs	x			1	x		
39	26-B	12-Sep-11	1329	0.5 - 1.0' bgs	x			1			
40	26-C	12-Sep-11	1333	1.0 - 1.5' bgs	x			1			

Relinquished by	Company	Date	Time	Received by	Company
Ben Uhl	HAI	9/13/11	9:40	Jennifer Sutton	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Thursday, October 13, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I427, which was received by the laboratory on 9/29/2011 at 1:17:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110927-SW-1	A11I427-01	Water	09/27/11 08:30	09/29/11 13:17
CRP-110927-SW-2	A11I427-02	Water	09/27/11 08:42	09/29/11 13:17

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110927-SW-1 (A11I427-01)			**Matrix: Water**		**Batch: 1110033**			
Chromium	ND	---	2.00	ug/L	1	10/06/11 11:57	EPA 6020	B-02
Lead	ND	---	1.00	"	"	"	"	
CRP-110927-SW-2 (A11I427-02)			**Matrix: Water**		**Batch: 1110033**			
Chromium	ND	---	2.00	ug/L	1	10/06/11 12:00	EPA 6020	B-02
Lead	ND	---	1.00	"	"	"	"	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110927-SW-1 (A11I427-01)			**Matrix: Water**		**Batch: 1110006**			
Total Suspended Solids	ND	---	5.00	mg/L	1	10/03/11 11:27	SM 2540 D	
CRP-110927-SW-2 (A11I427-02)			**Matrix: Water**		**Batch: 1110006**			
Total Suspended Solids	ND	---	5.00	mg/L	1	10/03/11 11:27	SM 2540 D	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110033 - EPA 3015A							**Water**					
Blank (1110033-BLK1)					Prepared: 10/03/11 16:59		Analyzed: 10/06/11 11:09					
EPA 6020												
Chromium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	B-02
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110033-BS1)					Prepared: 10/03/11 16:59		Analyzed: 10/06/11 11:11					
EPA 6020												
Chromium	56.3	---	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Lead	54.0	---	1.00	"	"	"	---	97	"	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110006 - Total Suspended Solids							**Water**					
Blank (1110006-BLK1)					Prepared: 10/03/11 10:25		Analyzed: 10/03/11 11:27					
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (1110006-DUP1)					Prepared: 10/03/11 10:25		Analyzed: 10/03/11 11:27					
QC Source Sample: CRP-110927-SW-1 (A11I427-01)												
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	ND	---	---	---	20%	
Reference (1110006-SRM1)					Prepared: 10/03/11 10:25		Analyzed: 10/03/11 11:27					
SM 2540 D												
Total Suspended Solids	90.0	---		mg/L	1	96.6		93	90-110%	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1110033							
A11I427-01	Water	EPA 6020	09/27/11 08:30	10/03/11 16:59	45mL/50mL	45mL/50mL	1.00
A11I427-02	Water	EPA 6020	09/27/11 08:42	10/03/11 16:59	45mL/50mL	45mL/50mL	1.00

Conventional Chemistry Parameters

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1110006							
A11I427-01	Water	SM 2540 D	09/27/11 08:30	10/03/11 10:25	1N/A/1N/A	1N/A/1mL	NA
A11I427-02	Water	SM 2540 D	09/27/11 08:42	10/03/11 10:25	1N/A/1N/A	1N/A/1mL	NA

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

Notes and Definitions

Qualifiers:

B-02 Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

A11I427

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Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Edo
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Jane-Clair Karle

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110927-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Edo

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Total Lead, Chromium (EPA Method 6010)	Total Suspend Solids	RUSH	Remarks
	SW-1	27-Sep-11	8:30	downstream		X		2	X	X		rain event
	SW-2	27-Sep-11	8:42	upstream		X		2	X	X		rain event

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	HAI	9/29/11	1317	[illegible]	Apex

DRAFT REPORT

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Monday, October 10, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I431, which was received by the laboratory on 9/29/2011 at 1:17:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110928-07-D	A11I431-01	Soil	09/28/11 14:05	09/29/11 13:17
CRP-110928-07-E	A11I431-03	Soil	09/28/11 14:10	09/29/11 13:17
CRP-110928-31-D	A11I431-05	Soil	09/28/11 14:38	09/29/11 13:17
CRP-110928-31-E	A11I431-06	Soil	09/28/11 14:41	09/29/11 13:17

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110928-07-D (A11I431-01)			**Matrix: Soil**		**Batch: 1110037**			
Arsenic	ND	---	2.14	mg/kg dry	10	10/04/11 13:36	EPA 6020	
Chromium	**15.2**	---	2.14	"	"	"	"	
Lead	**11.4**	---	1.07	"	"	"	"	
CRP-110928-07-E (A11I431-03)			**Matrix: Soil**		**Batch: 1110037**			
Arsenic	ND	---	2.26	mg/kg dry	10	10/04/11 13:39	EPA 6020	
Chromium	**13.4**	---	2.26	"	"	"	"	
Lead	**9.15**	---	1.13	"	"	"	"	
CRP-110928-31-D (A11I431-05)			**Matrix: Soil**		**Batch: 1110037**			
Arsenic	ND	---	2.34	mg/kg dry	10	10/04/11 13:45	EPA 6020	
Chromium	**20.4**	---	2.34	"	"	"	"	
Lead	**6.66**	---	1.17	"	"	"	"	
CRP-110928-31-E (A11I431-06)			**Matrix: Soil**		**Batch: 1110037**			
Arsenic	ND	---	2.46	mg/kg dry	10	10/04/11 12:07	EPA 6020	
Chromium	**21.2**	---	2.46	"	"	"	"	
Lead	**36.9**	---	1.23	"	"	"	"	
CRP-110928-31-E (A11I431-06RE1)			**Matrix: Soil**		**Batch: 1110113**			
Arsenic	ND	---	2.47	mg/kg dry	10	10/07/11 11:59	EPA 6020	
Chromium	**24.2**	---	2.47	"	"	"	"	
Lead	**31.4**	---	1.23	"	"	"	"	

DRAFT REPORT

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110928-07-D (A11I431-01)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**91.8**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
CRP-110928-07-E (A11I431-03)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**90.0**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
CRP-110928-31-D (A11I431-05)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**85.1**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	
CRP-110928-31-E (A11I431-06)			**Matrix: Soil**		**Batch: 1110044**			
% Solids	**86.6**	---	1.00	% by Weight	1	10/05/11 10:02	Apex SOP	

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110037 - EPA 3051A							**Soil**					
Blank (1110037-BLK1)					Prepared: 10/04/11 08:50		Analyzed: 10/04/11 11:58					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110037-BS1)					Prepared: 10/04/11 08:50		Analyzed: 10/04/11 12:01					
EPA 6020												
Arsenic	50.2	---	2.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Chromium	49.5	---	2.00	"	"	"	---	99	"	---	---	
Lead	53.1	---	1.00	"	"	"	---	106	"	---	---	
Matrix Spike (1110037-MS2)					Prepared: 10/04/11 08:50		Analyzed: 10/04/11 13:42					
QC Source Sample: CRP-110928-07-E (A11I431-03)												
EPA 6020												
Arsenic	55.3	---	2.20	mg/kg dry	10	55.1	0.734	99	75-125%	---	---	
Chromium	67.9	---	2.20	"	"	"	13.4	99	"	---	---	
Lead	66.2	---	1.10	"	"	"	9.15	103	"	---	---	
Batch 1110113 - EPA 3051A							**Soil**					
Blank (1110113-BLK1)					Prepared: 10/07/11 08:09		Analyzed: 10/07/11 11:53					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110113-BS1)					Prepared: 10/07/11 08:09		Analyzed: 10/07/11 11:56					
EPA 6020												
Arsenic	49.3	---	2.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Chromium	49.0	---	2.00	"	"	"	---	98	"	---	---	
Lead	51.4	---	1.00	"	"	"	---	103	"	---	---	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110044 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1110044-DUP4)					Prepared: 10/04/11 15:26		Analyzed: 10/05/11 10:02					
QC Source Sample: CRP-110928-07-D (A11I431-01)												
Apex SOP												
% Solids	**88.9**	---	1.00	% by Weight	1	---	91.8	---	---	3	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

DRAFT REPORT

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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1110037							
A11I431-01	Soil	EPA 6020	09/28/11 14:05	10/04/11 08:50	0.509g/50mL	0.5g/50mL	0.98
A11I431-03	Soil	EPA 6020	09/28/11 14:10	10/04/11 08:50	0.492g/50mL	0.5g/50mL	1.02
A11I431-05	Soil	EPA 6020	09/28/11 14:38	10/04/11 08:50	0.502g/50mL	0.5g/50mL	1.00
A11I431-06	Soil	EPA 6020	09/28/11 14:41	10/04/11 08:50	0.47g/50mL	0.5g/50mL	1.06
Batch: 1110113							
A11I431-06RE1	Soil	EPA 6020	09/28/11 14:41	10/07/11 08:09	0.468g/50mL	0.5g/50mL	1.07

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Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

Notes and Definitions

Qualifiers:

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MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
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---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
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4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/10/11 17:40

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434 NW Sixth Avenue, Suite 203 • Portland OR 97209
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Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Jane-Clair Kerle

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Status

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110928-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Arsenic, Lead, Chromium (EPA Method 6010)	RUSH	Remarks
	07-D	28-Sep-11			X			1	X		
	07-DD	28-Sep-11			X			1			
	07-E	28-Sep-11			X			1	X		
	07-F	28-Sep-11			X			1			
	31-D	28-Sep-11			X			1	X		
	31-E	28-Sep-11			X			1	X		
	31-F	28-Sep-11			X			1			

Relinquished by	Company	Date	Time	Received by	Company
[signature]	HAH	9/29/11	1317	[signature]	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Wednesday, October 19, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I443, which was received by the laboratory on 9/30/2011 at 1:40:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110929-52-B	A11I443-23	Soil	09/29/11 11:30	09/30/11 13:40

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110929-52-B (A11I443-23)			**Matrix: Soil**		**Batch: 1110320**			
Arsenic	ND	---	2.72	mg/kg dry	10	10/17/11 14:39	EPA 6020	
Chromium	**39.7**	---	2.72	"	"	"	"	
Lead	**13.7**	---	1.36	"	"	"	"	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110929-52-B (A11I443-23)			**Matrix: Soil**		**Batch: 1110304**			
% Solids	**76.7**	---	1.00	% by Weight	1	10/17/11 12:13	Apex SOP	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110320 - EPA 3051A							**Soil**					
Blank (1110320-BLK1)					Prepared: 10/17/11 08:00		Analyzed: 10/17/11 14:32					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110320-BS1)					Prepared: 10/17/11 08:00		Analyzed: 10/17/11 14:36					
EPA 6020												
Arsenic	52.2	---	2.00	mg/kg wet	10	50.0	---	104	80-120%	---	---	
Chromium	51.4	---	2.00	"	"	"	---	103	"	---	---	
Lead	53.4	---	1.00	"	"	"	---	107	"	---	---	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110304 - Total Solids (Dry Weight)							**Soil**					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1110320							
A11I443-23	Soil	EPA 6020	09/29/11 11:30	10/17/11 08:00	0.479g/50mL	0.5g/50mL	1.04

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

Notes and Definitions

Qualifiers:

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/19/11 14:08

A11I443

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 795-0717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Jane Clair Kerin

Liquid with Sediment Sample — Test Water / Test Sediment / Test Both
Multi-Phase Sample — Test One (which) / Test Separately / Bailer

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110929-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Arsenic, Lead, Chromium (EPA Method 6010)	RUSH	Remarks
1	13-D	29-Sep-11	913	1.5 - 2.0' bgs	X			1	X		
2	13-E	29-Sep-11	1409	2.0 - 2.5' bgs	X			1	X		
3	13F	29-Sep-11	1405	2.5 - 3.0' bgs	X			1			
4	12-D	29-Sep-11	930	1.5 - 2.0' bgs	X			1	X		
5	12-E	29-Sep-11	935	2.0 - 2.5' bgs	X			1	X		
6	12-F	29-Sep-11	1400	2.5 - 3.0' bgs	X			1			
7	05-D	29-Sep-11	1005	1.5 - 2.0' bgs	X			1	X		
8	05-E	29-Sep-11	1000	2.0 - 2.5' bgs	X			1	X		
9	05-F	29-Sep-11	955	2.5 - 3.0' bgs	X			1			
10	30-D	29-Sep-11	1030	1.5 - 2.0' bgs	X			1	X		
11	30-E	29-Sep-11	1027	2.0 - 2.5' bgs	X			1	X		
12	30-F	29-Sep-11	1035	2.5 - 3.0' bgs	X			1			
13	06-D	29-Sep-11	1050	1.5 - 2.0' bgs	X			1	X		
14	06-E	29-Sep-11	1047	2.0 - 2.5' bgs	X			1	X		
15	06-F	29-Sep-11	1043	2.5 - 3.0' bgs	X			1			
16	02-D	29-Sep-11	1100	1.5 - 2.0' bgs	X			1	X		
17	02-E	29-Sep-11	1103	2.0 - 2.5' bgs	X			1	X		
18	02-F	29-Sep-11	1057	2.5 - 3.0' bgs	X			1			
19	53-A	29-Sep-11	1120	0.0 - 0.5' bgs	X			1	X		
20	53-B	29-Sep-11	1117	0.5 - 1.0' bgs	X			1			
21	53-C	29-Sep-11	1114	1.0 - 1.5' bgs	X			1			
22	52-A	29-Sep-11	1134	0.0 - 0.5' bgs	X			1	X		
23	52-B	29-Sep-11	1130	0.5 - 1.0' bgs	X			1			
24	52-C	29-Sep-11	1127	1.0 - 1.5' bgs	X			1			
25	55-A	29-Sep-11	1248	0.0 - 0.5' bgs	X			1	X		
26	55-B	29-Sep-11	1244	0.5 - 1.0' bgs	X			1			
27	55-C	29-Sep-11	1238	1.0 - 1.5' bgs	X			1			
28	51-A	29-Sep-11	1307	0.0 - 0.5' bgs	X			1	X		
29	51-B	29-Sep-11	1303	0.5 - 1.0' bgs	X			1			
30	51-C	29-Sep-11	1300	1.0 - 1.5' bgs	X			1			
31	50-A	29-Sep-11	1342	0.0 - 0.5' bgs	X			1	X		
32	50-B	29-Sep-11	1334	0.5 - 1.0' bgs	X			1			
33	50-C	29-Sep-11	1338	1.0 - 1.5' bgs	X			1			
34	35-D	29-Sep-11	1354	1.5 - 2.0' bgs	X			1	X		
35	35-E	29-Sep-11	1351	2.0 - 2.5' bgs	X			1			
36	35-F	29-Sep-11	1347	2.5 - 3.0' bgs	X			1			

Relinquished by	Company	Date	Time	Received by	Company
RJS M. Ede	HAEI	9/30/11	1340	Jennifer Suff	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Friday, October 14, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11J010, which was received by the laboratory on 10/3/2011 at 10:30:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Labs

12232 S.W. Garden Place
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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110930-55-C	A11J010-04	Soil	09/30/11 08:52	10/03/11 10:30
CRP-110930-09-F	A11J010-11	Soil	09/30/11 09:35	10/03/11 10:30
CRP-110930-32-F	A11J010-19	Soil	09/30/11 10:25	10/03/11 10:30
CRP-110930-32-FD	A11J010-20	Soil	09/30/11 10:25	10/03/11 10:30

Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110930-55-C (A11J010-04)			**Matrix: Soil**		**Batch: 1110213**			
Arsenic	ND	---	2.70	mg/kg dry	10	10/14/11 15:21	EPA 6020	
Chromium	**56.1**	---	2.70	"	"	"	"	
Lead	**7.88**	---	1.35	"	"	"	"	
CRP-110930-09-F (A11J010-11)			**Matrix: Soil**		**Batch: 1110213**			
Arsenic	ND	---	2.41	mg/kg dry	10	10/14/11 15:24	EPA 6020	
Chromium	**55.6**	---	2.41	"	"	"	"	
Lead	**12.8**	---	1.21	"	"	"	"	
CRP-110930-32-F (A11J010-19)			**Matrix: Soil**		**Batch: 1110213**			
Arsenic	ND	---	2.19	mg/kg dry	10	10/14/11 15:28	EPA 6020	
Chromium	**20.5**	---	2.19	"	"	"	"	
Lead	**17.0**	---	1.10	"	"	"	"	
CRP-110930-32-FD (A11J010-20)			**Matrix: Soil**		**Batch: 1110213**			
Arsenic	ND	---	2.28	mg/kg dry	10	10/14/11 15:30	EPA 6020	
Chromium	**26.4**	---	2.28	"	"	"	"	
Lead	**19.4**	---	1.14	"	"	"	"	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110930-55-C (A11J010-04)			**Matrix: Soil**		**Batch: 1110200**			
% Solids	**81.0**	---	1.00	% by Weight	1	10/12/11 09:49	Apex SOP	
CRP-110930-09-F (A11J010-11)			**Matrix: Soil**		**Batch: 1110200**			
% Solids	**81.3**	---	1.00	% by Weight	1	10/12/11 09:49	Apex SOP	
CRP-110930-32-F (A11J010-19)			**Matrix: Soil**		**Batch: 1110200**			
% Solids	**88.5**	---	1.00	% by Weight	1	10/12/11 09:49	Apex SOP	
CRP-110930-32-FD (A11J010-20)			**Matrix: Soil**		**Batch: 1110200**			
% Solids	**88.5**	---	1.00	% by Weight	1	10/12/11 09:49	Apex SOP	

Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110213 - EPA 3051A							**Soil**					
Blank (1110213-BLK1)					Prepared: 10/12/11 08:13		Analyzed: 10/14/11 14:22					
EPA 6020												
Arsenic	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	2.00	"	"	---	---	---	---	---	---	
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110213-BS1)					Prepared: 10/12/11 08:13		Analyzed: 10/14/11 14:25					
EPA 6020												
Arsenic	50.9	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Chromium	49.7	---	2.00	"	"	"	---	99	"	---	---	
Lead	52.5	---	1.00	"	"	"	---	105	"	---	---	

Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110200 - Total Solids (Dry Weight)							**Soil**					
Duplicate (1110200-DUP1)					Prepared: 10/11/11 13:33		Analyzed: 10/12/11 09:49					
QC Source Sample: CRP-110930-32-FD (A11J010-20)												
Apex SOP												
% Solids	**88.7**	---	1.00	% by Weight	1	---	88.5	---	---	0.2	20%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1110213							
A11J010-04	Soil	EPA 6020	09/30/11 08:52	10/12/11 08:13	0.458g/50mL	0.5g/50mL	1.09
A11J010-11	Soil	EPA 6020	09/30/11 09:35	10/12/11 08:13	0.51g/50mL	0.5g/50mL	0.98
A11J010-19	Soil	EPA 6020	09/30/11 10:25	10/12/11 08:13	0.515g/50mL	0.5g/50mL	0.97
A11J010-20	Soil	EPA 6020	09/30/11 10:25	10/12/11 08:13	0.496g/50mL	0.5g/50mL	1.01

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

Notes and Definitions

Qualifiers:

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepency with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/14/11 16:54

A11J010

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-0717 • Fax (503) 227-2300

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Ede
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Ben LM

Liquid with Sediment Sample — Test Potable / Test Sediment / Test Soils
Multi-Phase Sample — Test Dire (which) / Test Separately / Grab

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110930-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Ede

Lab ID	Sample #	Date	Time	Sample Description	Matrix: Soil	Matrix: Water	Matrix: Other	Number of Containers	As, Cr, Pb (EPA Method 6010)	Rush	Remarks
	SS-A	30-Sep-11	901	0.0 - 0.5' bgs	X			1	X		
	SS-AD	30-Sep-11	901	0.0 - 0.5' bgs	X			1	X		
	SS-B	30-Sep-11	850	0.5 - 1.0' bgs	X			1	X		
	SS-C	30-Sep-11	853	1.0 - 1.5' bgs	X			1			
	SS-A	30-Sep-11	920	0.0 - 0.5' bgs	X			1	X		
	SS-B	30-Sep-11	915	0.5 - 1.0' bgs	X			1			
	SS-BD	30-Sep-11	915	0.5 - 1.0' bgs	X			1			
	SS-C	30-Sep-11	912	1.0 - 1.5' bgs	X			1			
	09-D	30-Sep-11	946	1.5 - 2.0' bgs	X			1	X		
	09-E	30-Sep-11	945	2.0 - 2.5' bgs	X			1	X		
	09-F	30-Sep-11	935	2.5 - 3.0' bgs	X			1			
	33-D	30-Sep-11	1017	1.5 - 2.0' bgs	X			1	X		
	33-E	30-Sep-11	1012	2.0 - 2.5' bgs	X			1	X		
	33-ED	30-Sep-11	1012	2.0 - 2.5' bgs	X			1	X		
	33-F	30-Sep-11	1001	2.5 - 3.0' bgs	X			1			
	33-FD	30-Sep-11	1001	2.5 - 3.0' bgs	X			1			
	32-D	30-Sep-11	1040	1.5 - 2.0' bgs	X			1	X		
	32-E	30-Sep-11	1030	2.0 - 2.5' bgs	X			1	X		
	32-F	30-Sep-11	1025	2.5 - 3.0' bgs	X			1			
	32-FD	30-Sep-11	1025	2.5 - 3.0' bgs	X			1			

Relinquished by	Company	Date	Time	Received by	Company
RAE	HAI	10/3/11	1030	Jennifer Suffa	Apex
Relinquished by	Company	Date	Time	Received by	Company

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Appendix F – Laboratory Analytical Report for Cripple Creek Surface Water

Apex Labs

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503-718-2323 Phone
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Thursday, October 13, 2011

Aaron Leritz
Bridgewater Group
4500 SW Kruse Way; Suite 110
Lake Oswego, OR 97035

RE: PGE-Cripple Creek Trestle / 7985

Enclosed are the results of analyses for work order A11I427, which was received by the laboratory on 9/29/2011 at 1:17:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Labs

12232 S.W. Garden Place
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503-718-2323 Phone
503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CRP-110927-SW-1	A11I427-01	Water	09/27/11 08:30	09/29/11 13:17
CRP-110927-SW-2	A11I427-02	Water	09/27/11 08:42	09/29/11 13:17

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110927-SW-1 (A11I427-01)			**Matrix: Water**		**Batch: 1110033**			
Chromium	ND	---	2.00	ug/L	1	10/06/11 11:57	EPA 6020	B-02
Lead	ND	---	1.00	"	"	"	"	
CRP-110927-SW-2 (A11I427-02)			**Matrix: Water**		**Batch: 1110033**			
Chromium	ND	---	2.00	ug/L	1	10/06/11 12:00	EPA 6020	B-02
Lead	ND	---	1.00	"	"	"	"	

DRAFT REPORT

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Apex Labs

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503-718-0333 Fax

Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

ANALYTICAL SAMPLE RESULTS

Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
CRP-110927-SW-1 (A11I427-01)			**Matrix: Water**		**Batch: 1110006**			
Total Suspended Solids	ND	---	5.00	mg/L	1	10/03/11 11:27	SM 2540 D	
CRP-110927-SW-2 (A11I427-02)			**Matrix: Water**		**Batch: 1110006**			
Total Suspended Solids	ND	---	5.00	mg/L	1	10/03/11 11:27	SM 2540 D	

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110033 - EPA 3015A							**Water**					
Blank (1110033-BLK1)					Prepared: 10/03/11 16:59		Analyzed: 10/06/11 11:09					
EPA 6020												
Chromium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	B-02
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	
LCS (1110033-BS1)					Prepared: 10/03/11 16:59		Analyzed: 10/06/11 11:11					
EPA 6020												
Chromium	56.3	---	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Lead	54.0	---	1.00	"	"	"	---	97	"	---	---	

DRAFT REPORT

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Conventional Chemistry Parameters

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110006 - Total Suspended Solids							**Water**					
Blank (1110006-BLK1)					Prepared: 10/03/11 10:25		Analyzed: 10/03/11 11:27					
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (1110006-DUP1)					Prepared: 10/03/11 10:25		Analyzed: 10/03/11 11:27					
QC Source Sample: CRP-110927-SW-1 (A11I427-01)												
SM 2540 D												
Total Suspended Solids	ND	---	5.00	mg/L	1	---	ND	---	---	---	20%	
Reference (1110006-SRM1)					Prepared: 10/03/11 10:25		Analyzed: 10/03/11 11:27					
SM 2540 D												
Total Suspended Solids	90.0	---		mg/L	1	96.6		93	90-110%	---	---	

DRAFT REPORT

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Apex Labs

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1110033							
A11I427-01	Water	EPA 6020	09/27/11 08:30	10/03/11 16:59	45mL/50mL	45mL/50mL	1.00
A11I427-02	Water	EPA 6020	09/27/11 08:42	10/03/11 16:59	45mL/50mL	45mL/50mL	1.00

Conventional Chemistry Parameters

Prep: Total Suspended Solids

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 1110006							
A11I427-01	Water	SM 2540 D	09/27/11 08:30	10/03/11 10:25	1N/A/1N/A	1N/A/1mL	NA
A11I427-02	Water	SM 2540 D	09/27/11 08:42	10/03/11 10:25	1N/A/1N/A	1N/A/1mL	NA

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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

Notes and Definitions

Qualifiers:

B-02 Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
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Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
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Bridgewater Group	Project: **PGE-Cripple Creek Trestle**	
4500 SW Kruse Way; Suite 110	Project Number: 7985	**Reported:**
Lake Oswego, OR 97035	Project Manager: Aaron Leritz	10/13/11 12:34

A11I427

HAHN AND ASSOCIATES, INC.
Environmental Consultants
434 NW Sixth Avenue, Suite 203 • Portland OR 97209
(503) 796-9717 • Fax (503) 227-2209

Laboratory: Apex Laboratories, Tigard, Oregon
Lab Project No.

CHAIN OF CUSTODY
Chain of Custody No.

Project Manager: Rob Edo
Project No.: 7985
Project Name: PGE - Cripple Creek Trestle
Collected by: Jane-Clair Karle

Liquid with Sediment Sample: Test Filtrate / Test Sediment / Test Both
Multi-Phase Sample: Test One (which) / Test Separately / Shake

Samples Received at 4C (Y or N)
Appropriate Containers Used (Y or N)
Provide Verbal Results (Y or N): No
Provide Preliminary Fax Results: Yes

Comments:
Sample Number Prefix: CRP-110927-
All results 5 day TAT
PLEASE RETAIN SAMPLES UNTIL INSTRUCTED OTHERWISE
Pricing as per P. Nerenberg. Invoicing to PGE; attn: Ms. Brandy Domina; Results to A. Leritz, R. Edo

Lab ID	Sample #	Date	Time	Sample Description	Soil	Water	Other	Number of Containers	Total Lead, Chromium (EPA Method 6010)	Total Suspend Solids	RUSH	Remarks
	SW-1	27-Sep-11	8:30	downstream		X		2	X	X		rain event
	SW-2	27-Sep-11	8:42	upstream		X		2	X	X		rain event

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	HAI	9/29/11	1317	[illegible]	Apex

DRAFT REPORT

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